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Beef Cow-Calf

Herd Health Monitoring Report

Red Meat II

Ontario 1990

Management Practices and Herd Performance

Health Management

Ontario

Ministry of Agriculture and Food

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Beef Cow-Calf Herd Health Monitoring Report 1990

This report began in small notebooks in the pockets of nearly 1700 cow-calf producers across Ontario. These producers chose to keep individual animal records for the 1989-1990 cow-calf production cycle. They summarized the records into a herd level report and then shared it with others. It was their diligence that made this description of cow-calf herd performance possible.

The paper trail led to large animal veterinary practitioners, county agricultural offices, the data processing centre in Guelph and finally to Fergus. At each step of the way, owners, veterinarians, Ontario Ministry of Agriculture and Food county office staff and staff in the incentives unit of Red Meat II did their work well. As a result, the questionnaires were complete and very little data was lost.

A look inside these covers will confirm that computers were essential to manipulate the data into information. But first, computers need the data. That job fell to Madeline Jackson. She skilfully entered nearly 68,000 fields and two million characters of data. Mary Van den Borre created the tables summarizing information for individual counties; Arlie Erichsen helped with the graphics and Mary Sinclair created the Ontario map.

Now the information from the data is taking the trail back to producers, veterinarians, county extension staff, students and teachers. Hope you find it useful.

Thank you to everyone who made this report possible.

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Beef Cow-Calf Herd Health Monitoring Report

Ontario 1990

Management Practices Used and Herd Performance Summaries

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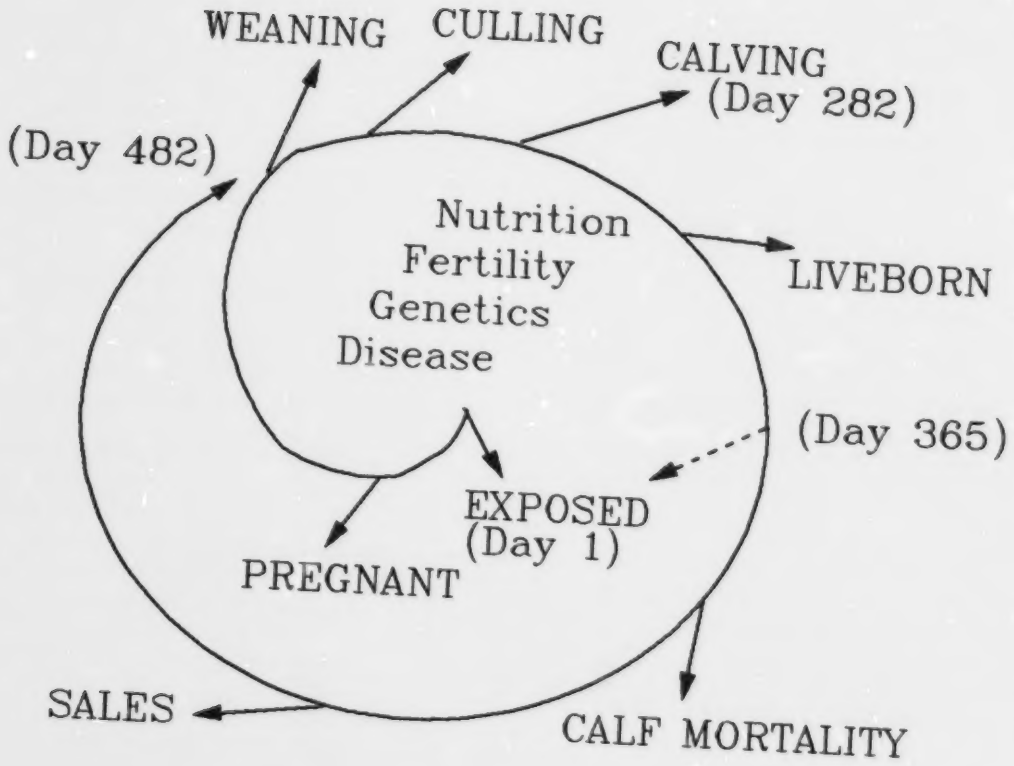

BEEF HERD MONITORING CYCLE

INTRODUCTION

Purpose of Monitoring Cow-Calf Herd Performance

This is the second report of cow-calf herd performance using data from the Red Meat II herd health program. The number of farms participating increased to about 1700 in 1990 from 1248 in 1989.

On an individual farm, recording health and reproductive events creates a primary surveillance system. Simple calculations allow comparison of actual herd performance to the owner's goals and realistic standards. Thus, the producer, the veterinarian and other consultants have a chance to identify areas of loss and to reinforce success. Also, record keeping permits assessment of health management practices. To be of value, the monitoring of an individual herd requires immediate analysis of records and reporting. This was possible using records for the Herd Health Program of Red Meat II.

Comparisons are only possible when the records from many farms are available to create a report card for counties, districts, regions and the Province. Indeed, this project made creation of a report card possible. The major steps in this health and performance monitoring scheme were data collection, data analysis and reporting.

In this report, the information from the records of many farms gives a view of the Ontario cow-calf industry. It describes management practices in use, reproductive performance, calf survival and calf growth. The information is necessary to develop extension programs and to plan future health and management programs.

Population of Observations

Approximately 1700 cow-calf herd owners completed the questionnaires. Because of missing data, the number of observations used to calculate specific reproductive and health performance summaries is less than 1700. However, the lost data was very minimal for any measure. The data relate to herds participating in a calf weighing scheme and using veterinary service at varying levels.

DEFINITIONS and FORMULAE

The measures of reproductive performance and growth of calves are described by the following definitions.

The response options for **herd management practices used** are yes or no. Polled calves were recorded as such.

The **herd monitoring interval** spans the biological period from exposure to mating through to weaning of progeny from that mating.

A **stillborn calf** is a calf born dead or one which died within 24 hours after birth.

Calving Spread is the time in days from the birth of the first calf to the birth of the last calf.

Open Rate = the number females not calving (or found not pregnant) ÷ the number exposed to mating.

Removal Rate = the number cows removed (breeding sales, culls, deaths) ÷ the number of cows exposed to mating.

Calving Rate = the number of calves born (alive + dead) ÷ the number of females exposed to mating.

Liveborn Calving Rate = the number of calves born alive ÷ the number of females exposed to mating.

Stillborn Rate = the number of stillborn calves ÷ the number of calves born (alive + dead).

Assisted Calving Rate = the number females helped at calving ÷ the number females calved.

Calf Mortality Rate = the number of calves that died between day two after birth until weaning ÷ number of liveborn calves.

Treatment Rate for Calves = the number of calves treated for any illness ÷ the number of liveborn calves.

Weaned Calf Crop Rate = the number of calves weaned ÷ the number of females exposed to mating.

Adjusted Weaning Weight = average 200 day adjusted weaning weight from Beef Herd Improvement Program records. All calves weaned were not always weighed.

Adjusted Pounds Calf Weaned per Cow Exposed = (number calves weaned ÷ number females exposed to mating) x average 200 day adjusted weaning weight.

The following measures describe and summarize interesting features of the population of herds.

Average (Mean)

The arithmetic average is the sum of all the values of the observations divided by the number of herd observations. For normally distributed observations ("bell-shaped" graphs), the mean and standard deviation (STD) would adequately describe the population of herds. That is, 68% of all herds would fall within plus or minus one STD of the average. Since this is generally not the case with this data, measures of location are more useful to describe the population of herds.

Measures of Location

The measures of location are **percentiles.** To compare your herd to others, find the location of your herd performance in the population of herd observations. The **median (50%)** is the central value. It is the middle value when the observations are arranged in ascending or descending order. Half of the herd observations lie above it and half lie below it. For PCTL90, 90% of the observations lie below it and 10% lie above it. For PCTL10, 10% of the observations lie below it and 90% lie above it. The other percentiles are interpreted similarly.

Notes

1. Using the 'number exposed to mating' as the denominator in calculating calving, liveborn calving and weaned calf crop rate causes concern for some individuals. It is the most common method described in the literature. Thus, it is used for consistency in reporting.

2. Cows leaving or entering the herd affect the rates when the denominator and numerator are not adjusted. In individual herds with many purchases or sales for breeding stock, the effect is pronounced. Culling for involuntary reasons also influences the rates. In general, the majority of herds have few removals or additions in a given year.

3. The reader should not judge herd performance based on a single rate or measure (ie calving rate) when using the summary. This general statement holds true for any herd health and performance monitoring scheme. Thus, interpretation of the calculated calving rate should be made considering removal rate.

4. The formulae for calculating calving and stillborn rate in this report differ from those used on the questionnaire form. They are consistent with methods used in the Benchmark study conducted by McDermott, Alves, Anderson and Martin in Ontario.

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Section 1

Beef Cow-Calf Herds

Management Practices Used
and
Herd Performance Summaries
for
All Participating Herds

Table 1. Participation by County for 1686 Producers in the Ontario Red Meat II Herd Health Option in 1990

	Number	Percent		Number	Percent
Algoma	19	1.1	Manitoulin	44	2.6
Brant	8	.5	Middlesex	29	1.7
Bruce	191	11.3	Muskoka	3	.2
Cochrane	18	1.1	Niagara	3	.2
Dufferin	35	2.1	Nipissing	8	.5
Dundas	7	.4	Northumberland	31	1.8
Durham.E	11	0.7	Ottawa.Carlton	48	2.8
Durham.W	27	1.6	Oxford	16	.9
Elgin	31	1.8	Parrysound	4	.2
Essex	8	.5	Peel	10	.6
Frontenac	29	1.7	Perth	35	2.1
Glengarry	21	1.7	Peterborough	77	4.6
Grenville	12	.7	Prescott	12	.7
Grey	154	9.1	Prince.Edward	10	.6
Haliburton	1	0.1	Rainy.River	59	3.5
Halton	5	.3	Renfrew	154	9.1
Hastings	42	2.5	Russell	7	.4
Hldmnd.Nrflk	18	1.1	Simcoe	52	3.1
Hmltn.Wntwrth	8	.5	Stormont	8	.5
Huron	77	4.6	Sudbury	19	1.1
Kenora	4	.2	Thunder.Bay	2	.1
Kent	12	.7	Timiskaming	24	1.4
Lambton	33	2.0	Victoria	98	5.8
Lanark	70	4.2	Waterloo	6	.4
Leeds	12	.7	Wellington	41	2.4
Lnnx.Add	29	1.7	York	4	.2

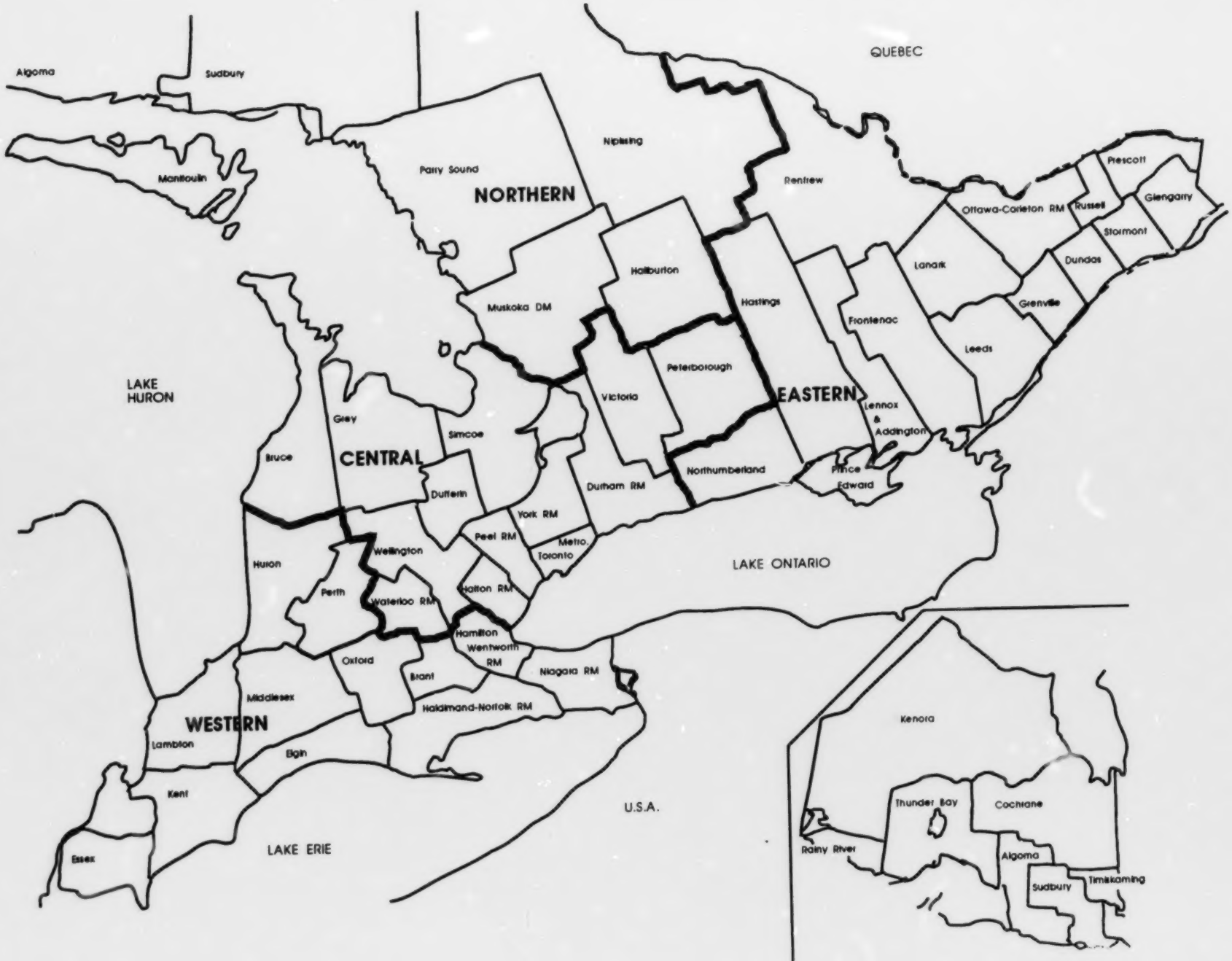
Table 2. Herd Management Practices Used by Producers in the Ontario Red Meat II Herd Health Option in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	1687	506	30.0
Ration formulation	1687	474	28.1
Pasture improvement/rotation	1687	1286	76.2
Pregnancy examinations	1687	1338	79.3
Crossbreeding	1687	1255	74.4
Bull breeding soundness evaluation	1687	423	25.1
Vaccinations	1686	1415	83.9
Deworming	1686	1393	82.6
Lice/warble treatment	1687	1598	94.7
Fly control	1687	1207	71.5
Postmortem examination	1687	697	41.3
Vitamin E-Se injection	1687	1503	89.1
Growth promotants	1687	378	22.4
Early dehorning	1687	956	59.8
Polled	1687	87	5.2
Early castration	1686	1160	68.8
Creep feeding	1687	937	55.5

Table 3. Averages and Location of Measures of Herd Performance for Participants in the Ontario Red Meat II Herd Health Option in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	1679	220	8.1	10.2	18	11	6	2	0
Cows	1678	426	42.1	33.3	80	51	33	21	14
Bulls	1678	101	2.0	3.6	4	2	1	1	0
Exposed to Mating	1687	510	45.1	38.5	85	54	35	22	15
Calves Weaned	1667	426	39.1	32.5	74	48	30	19	13
Length of Calving Season									
Calving Spread (days)	1652	365	133.7	78.1	253	173	110	78	56
Breeding Success / Removals									
Open Rate	1684	89	4.3	6.2	11	6	3	0	0
Removed Rate	1674	97	12.1	11.0	25	17	10	5	0
Calving Success									
Calving Rate	1687	129	94.7	9.3	102	100	97	92	83
Liveborn Calving Rate	1687	113	91.5	9.8	100	99	94	88	79
Stillborn Rate	1687	41	3.4	4.3	8	5	2	0	0
Assisted Calving Rate	1686	100	9.1	10.7	20	12	7	2	0
Calf Survival and Treatment									
Calf Mortality Rate	1621	40	3.5	5.6	10	5	0	0	0
Calf Treatment Rate	1635	100	15.6	23.1	40	19	8	0	0
Productivity									
Weaned Calf Crop Rate	1666	125	88.6	11.0	100	96	91	83	74
Average 200 Day Adjusted Weaning Weight (lbs)	1670	775	552	70.8	643	597	552	505	463
Weight (lbs) Calf Weaned per Cow Exposed	1650	775	490	90.1	601	550	492	432	381

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages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Timiskaming

Section 2

Beef Cow-Calf Herds

Management Practices Used
and
Herd Performance Summaries
by
Region of Ontario

Table 1. Counties and frequency of participation in the Red Meat II Herd Health Option, **Central Region** of Ontario, 1990

COUNTY	Frequency	Percent	Cumulative Frequency	Cumulative Percent
BRUCE	191	26.9	191	26.9
DUFFERIN	35	4.9	226	31.8
DURHAM.E	11	1.5	237	33.3
DURHAM.W	27	3.8	264	37.1
GREY	154	21.7	418	58.8
HALTON	5	0.7	423	59.5
PEEL	10	1.4	433	60.9
PETERBOROUGH	77	10.8	510	71.7
SIMCOE	52	7.3	562	79.0
VICTORIA	98	13.8	660	92.8
WATERLOO	6	0.8	666	93.7
WELLINGTON	41	5.8	707	99.4
YORK	4	0.6	711	100.0

Table 2. Herd Management Practices Used by **Central Region** Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	711	176	24.8
Ration formulation	711	184	25.9
Pasture improvement/rotation	711	560	78.8
Pregnancy examinations	711	582	81.9
Crossbreeding	711	506	71.2
Bull breeding soundness evaluation	711	190	26.7
Vaccinations	711	597	84.0
Deworming	711	586	82.4
Lice/warble treatment	711	681	95.8
Fly control	711	500	70.3
Postmortem examination	711	329	46.3
Vitamin E-Se injection	711	657	92.4
Growth promotants	711	154	21.7
Early dehorning	711	373	52.5
Polled	711	31	4.4
Early castration	711	461	64.8
Creep feeding	711	416	58.5

Table 3. Averages and Location of Measures of Herd Performance, Central Region, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	711	220	7.6	11.1	16	10	5	2	0
Cows	711	426	44.1	35.6	82	52	34	23	15
Bulls	710	45	1.9	2.7	4	2	1	1	0.5
Exposed to Mating	710	466	47.4	40.9	87	56	36	24	16
Calves Weaned	701	426	41.1	33.9	77	50	32	21	14
Length of Calving Season									
Calving Spread (days)	699	364	137.2	79.2	261	181	113	81	58
Breeding Success / Removals									
Open Rate	709	47	4.2	5.9	10	6	3.0	0	0
Removed Rate	706	90	11.8	10.4	24.0	16.0	10.0	5	0
Calving Success									
Calving Rate	710	122	94.9	9.7	104	100	97	92	82
Liveborn Calving Rate	710	113	91.8	9.9	100	100	94.0	88	79
Stillborn Rate	710	28	3.3	3.9	8	5	2.5	0	0
Assisted Calving Rate	709	100	8.2	9.4	19	12	7	3	0
Calf Survival and Treatment									
Calf Mortality Rate	687	37	3.4	5.3	9	5	1	0	0
Calf Treatment Rate	694	100	14.0	20.6	34	17.0	7	0	0
Productivity									
Weaned Calf Crop Rate	701	113	89.1	10.9	100	96	91	84	75
Average 200 Day Adjusted Weaning Weight (lbs)	706	775	551	71.6	645	594	550	503	463
Weight (lbs) Calf Weaned per Cow Exposed	698	775	492	91.4	603	550	494	433	381

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 4. Counties and frequency of participation in the Red Meat II Herd Health Option, **Eastern Region** of Ontario, 1990

COUNTY	Frequency	Percent	Cumulative Frequency	Cumulative Percent
DUNDAS	7	1.4	7	1.4
FRONTENAC	29	5.9	36	7.3
GLENGARRY	21	4.3	57	11.6
GRENVILLE	12	2.4	69	14.0
HASTINGS	42	8.5	111	22.6
LANARK	70	14.2	181	36.8
LEEDS	12	2.4	193	39.2
LENNOX.ADDINGTON	29	5.9	222	45.1
NORTHUMBERLAND	31	6.3	253	51.4
OTTAWA.CARLTON	48	9.8	301	61.2
PRESCOTT	12	2.4	313	63.6
PRINCE EDWARD	10	2.0	323	65.7
RENFREW	154	31.3	477	97.0
RUSSELL	7	1.4	484	98.4
STORMONT	8	1.6	492	100.0

Table 5. Herd Management Practices Used by **Eastern Region** Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	491	140	28.5
Ration formulation	491	120	24.4
Pasture improvement/rotation	491	372	75.8
Pregnancy examinations	491	373	76.0
Crossbreeding	491	383	78.0
Bull breeding soundness evaluation	491	111	22.6
Vaccinations	491	418	85.1
Deworming	491	387	78.8
Lice/warble treatment	491	458	93.3
Fly control	491	371	75.6
Postmortem examination	491	176	35.8
Vitamin E-Se injection	491	438	89.2
Growth promotants	491	96	19.6
Early dehorning	491	281	57.2
Polled	491	30	6.1
Early castration	491	371	75.6
Creep feeding	491	250	50.9

Table 6. Averages and Location of Measures of Herd Performance, Eastern Region, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	488	102	8.3	9.2	18	11	6	2	0
Cows	487	338	38.2	31.6	72	49	29	18	13
Bulls	488	32	2.0	2.7	4	2	1	1	0
Exposed to Mating	492	510	40.9	37.9	75	49	30	20	14
Calves Weaned	488	382	35.7	31.9	65	44	26	17	13
Length of Calving Season									
Calving Spread (days)	480	364	130.6	76.9	245	169	107	76	53
Breeding Success / Removals									
Open Rate	490	36	4.2	5.5	11	6	3.0	0	0
Removed Rate	490	97	13.2	12.2	28.5	18.0	10.0	5	0
Calving Success									
Calving Rate	492	112	94.4	8.8	100	100	97	92	83
Liveborn Calving Rate	492	108	91.3	9.4	100	98	93.5	88	78
Stillborn Rate	492	24	3.2	4.1	8	5	2.0	0	0
Assisted Calving Rate	492	80	8.9	10.7	19	12	6	2	0
Calf Survival and Treatment									
Calf Mortality Rate	470	35	3.4	5.5	11	5	0	0	0
Calf Treatment Rate	478	100	15.9	24.1	40	19.0	8	0	0
Productivity									
Weaned Calf Crop Rate	488	108	88.7	10.8	100	96	91	83	74
Average 200 Day Adjusted Weaning Weight (lbs)	490	758	555	71.6	641	601	557	509	465
Weight (lbs) Calf Weaned per Cow Exposed	486	754	492	89.4	605	556	497	433	379

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 7. Counties and frequency of participation in the Red Meat II Herd Health Option, **Northern Region** of Ontario, 1990

COUNTY	Frequency	Percent	Cumulative Frequency	Cumulative Percent
ALGOMA	19	9.3	19	9.3
COCHRANE	18	8.8	37	18.0
HALIBURTON	1	0.5	38	18.5
KENORA	4	2.0	42	20.5
MANITOULIN	44	21.5	86	42.0
MUSKOKA	3	1.5	89	43.4
NIPISSING	8	3.9	97	47.3
PARRY SOUND	4	2.0	101	49.3
RAINY RIVER	59	28.8	160	78.0
SUDBURY	19	9.3	179	87.3
THUNDER BAY	2	1.0	181	88.3
TIMISKAMING	24	11.7	205	100.0

Table 8. Herd Management Practices Used by **Northern Region** Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	204	102	50.0
Ration formulation	204	83	40.7
Pasture improvement/rotation	204	158	77.5
Pregnancy examinations	204	154	75.5
Crossbreeding	204	156	76.5
Bull breeding soundness evaluation	204	46	22.5
Vaccinations	204	179	87.7
Deworming	204	174	85.3
Lice/warble treatment	204	191	93.6
Fly control	204	128	62.7
Postmortem examination	204	66	32.4
Vitamin E-Se injection	204	164	80.4
Growth promotants	204	39	19.1
Early dehorning	204	135	66.2
Polled	204	14	6.9
Early castration	204	150	73.5
Creep feeding	204	90	44.1

Table 9. Averages and Location of Measures of Herd Performance, Northern Region, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	202	68	8.7	8.7	18	12	7	3	0
Cows	202	190	43.3	27.9	78	56	36	22	17
Bulls	202	101	2.4	7.7	3	2	1	1	1
Exposed to Mating	204	220	45.0	30.5	85	54	37	24	17
Calves Weaned	201	206	39.0	26.6	67	47	34	21	16
Length of Calving Season									
Calving Spread (days)	201	339	117.0	67.1	218	141	95	71	54
Breeding Success / Removals									
Open Rate	204	38	4.3	5.9	11	7	2.5	0	0
Removed Rate	204	76	12.4	11.8	25.0	16.5	9.5	5	0
Calving Success									
Calving Rate	204	111	94.9	7.9	102	100	97	91	84
Liveborn Calving Rate	204	109	91.3	8.9	100	100	92.5	87	80
Stillborn Rate	204	26	3.9	4.4	9	6	3.0	0	0
Assisted Calving Rate	204	84	8.9	10.6	22	13	7	0	0
Calf Survival and Treatment									
Calf Mortality Rate	191	40	3.3	5.6	10	5	0	0	0
Calf Treatment Rate	196	100	18.8	28.4	56	23.0	7	0	0
Productivity									
Weaned Calf Crop Rate	200	125	88.8	10.3	100	96	90	83	74
Average 200 Day Adjusted Weaning Weight (lbs)	204	737	563	58.8	642	603	560	523	482
Weight (lbs) Calf Weaned per Cow Exposed	199	755	501	83.5	606	557	498	445	395

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 10. Counties and frequency of participation in the Red Meat II Herd Health Option, **Western Region** of Ontario, 1990

COUNTY	Frequency	Percent	Cumulative Frequency	Cumulative Percent
BRANT	8	2.9	8	2.9
ELGIN	31	11.2	39	14.0
ESSEX	8	2.9	47	16.9
HALDIMAND.NORFOLK	18	6.5	65	23.4
HAMILTON.WENTWORTH	8	2.9	73	26.3
HURON	77	27.7	150	54.0
KENT	12	4.3	162	58.3
LAMBTON	33	11.9	195	70.1
MIDDLESEX	29	10.4	224	80.6
NIAGARA	3	1.1	227	81.7
OXFORD	16	5.8	243	87.4
PERTH	35	12.6	278	100.0

Table 11. Herd Management Practices Used by **Western Region** Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	278	87	31.3
Ration formulation	278	87	31.3
Pasture improvement/rotation	278	193	69.4
Pregnancy examinations	278	226	81.3
Crossbreeding	278	209	75.2
Bull breeding soundness evaluation	278	75	27.0
Vaccinations	278	218	78.4
Deworming	278	243	87.4
Lice/warble treatment	278	265	95.3
Fly control	278	205	73.7
Post-mortem examination	278	124	44.6
Vitamin E-Se injection	278	241	86.7
Growth promotants	278	89	32.0
Early dehorning	278	165	59.4
Polled	278	12	4.3
Early castration	278	175	62.9
Creep feeding	278	180	64.7

Table 12. Averages and Location of Measures of Herd Performance, Western Region, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	275	74	8.6	10.4	20	10	6	2	0
Cows	275	193	43.1	33.5	82	54	33	20	14
Bulls	275	30	2.0	2.5	4	2	1	1	1
Exposed to Mating	278	245	46.8	38.4	87	57	34	21	14
Calves Weaned	274	212	40.5	33.8	76	50	29	19	13
Length of Calving Season									
Calving Spread (days)	269	365	142.3	82.9	278	194	117	83	53
Breeding Success / Removals									
Open Rate	278	89	4.9	7.9	12	7	3.0	0	0
Removed Rate	271	60	10.5	9.5	21.0	15.0	9.0	4	0
Calving Success									
Calving Rate	278	129	94.6	10.1	102	100	97	92	83
Liveborn Calving Rate	278	113	91.2	10.6	100	98	93.0	87	79
Stillborn Rate	278	41	3.7	5.2	9	5	2.0	0	0
Assisted Calving Rate	278	100	10.7	13.6	26	14	7	2	0
Calf Survival and Treatment									
Calf Mortality Rate	270	34	4.3	6.6	11	6	2	0	0
Calf Treatment Rate	264	100	16.6	23.3	44	18.5	9	0	0
Productivity									
Weaned Calf Crop Rate	274	113	87.4	12.4	100	95	90	82	73
Average 200 Day Adjusted Weaning Weight (lbs)	267	716	540	73.6	640	593	540	488	435
Weight (lbs) Calf Weaned per Cow Exposed	264	734	473	91.5	593	531	472	415	365

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Section 3

Beef Cow-Calf Herds

Management Practices Used
and
Herd Performance Summaries
for
Individual County or District

Table 1. Herd Management Practices Used by Algoma District Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	18	15	83.3
Ration formulation	18	15	83.3
Pasture improvement/rotation	18	16	88.9
Pregnancy examinations	18	16	88.9
Crossbreeding	18	15	83.3
Bull breeding soundness evaluation	18	1	5.6
Vaccinations	18	18	100.0
Deworming	18	17	94.4
Lice/warble treatment	18	18	100.0
Fly control	18	15	83.3
Postmortem examination	18	7	38.9
Vitamin E-Se injection	18	17	94.4
Growth promotants	18	2	11.1
Early dehorning	18	10	55.6
Polled	18	2	11.1
Early castration	18	13	72.2
Creep feeding	18	4	22.2

Table 2. Averages and Location of Measures of Herd Performance, Algoma District, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	19	20	5.6	6.1	16.0	10.0	3.0	0.0	0.0
Cows	19	107	44.9	24.5	90.0	61.0	40.0	25.0	19.0
Bulls	19	3	1.5	0.9	3.0	2.0	1.0	1.0	0
Exposed to Mating	19	124	46.9	25.7	82.0	61.0	47.0	27.0	20.0
Calves Weaned	19	106	41.6	22.5	75.0	54.0	39.0	23.0	18.0
Length of Calving Season									
Calving Spread (days)	18	300	114.4	63.0	233.0	126.0	104.5	75.0	54.0
Breeding Success / Removals									
Open Rate	19	16	4.4	5.5	15.0	10.0	2.0	0.0	0
Removed Rate	19	75	15.9	15.4	30.0	16.0	12.0	8.0	8.0
Calving Success									
Calving Rate	19	105	95.4	6.7	104.0	102.0	94.0	90.0	85.0
Liveborn Calving Rate	19	100	90.9	6.6	100.0	97.0	90.0	87.0	80.0
Stillborn Rate	19	13	4.7	4.2	11.0	9.0	5.0	0.0	0
Assisted Calving Rate	19	25	9.9	7.9	22.0	18.0	7.0	4.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	19	10	2.9	3.2	9.0	5.0	2.0	0.0	0
Calf Treatment Rate	19	38	11.9	12.0	32.0	17.0	10.0	2.0	0
Productivity									
Weaned Calf Crop Rate	19	98	88.2	5.9	97.0	94.0	88.0	84.0	78
Average 200 Day Adjusted Weaning Weight (lbs)	19	642	583.4	42.8	635.0	616.0	580.0	561.0	549.0
Weight (lbs) Calf Weaned per Cow Exposed	19	597	514.6	53.5	565.0	561.0	529.0	485.0	440.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 3. Herd Management Practices Used by **Brant County** Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	8	2	25.0
Ration formulation	8	4	50.0
Pasture improvement/rotation	8	6	75.0
Pregnancy examinations	8	8	100.0
Crossbreeding	8	7	87.5
Bull breeding soundness evaluation	8	3	37.5
Vaccinations	8	8	100.0
Deworming	8	8	100.0
Lice/warble treatment	8	8	100.0
Fly control	8	7	87.5
Postmortem examination	8	6	75.0
Vitamin E-Se injection	8	6	75.0
Growth promotants	8	3	37.5
Early dehorning	8	4	50.0
Polled	8	1	12.5
Early castration	8	5	62.5
Creep feeding	8	6	75.0

Table 4. Averages and Location of Measures of Herd Performance, Brant County, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	7	62	15.1	20.9	62.0	13.0	8.0	5.0	3.0
Cows	7	134	52.4	41.2	134.0	75.0	45.0	21.0	20.0
Bulls	7	7	2.3	2.1	7.0	2.0	2.0	1.0	1.0
Exposed to Mating	8	245	68.6	74.3	245.0	69.5	45.5	27.0	20.0
Calves Weaned	8	171	55.5	50.3	171.0	61.5	45.0	20.5	19.0
Length of Calving Season									
Calving Spread (days)	8	308	136.3	95.4	308.0	205.0	107.0	54.5	49.0
Breeding Success / Removals									
Open Rate	8	8	3.1	2.6	8.0	4.5	3.0	1.0	0.0
Removed Rate	8	51	11.9	16.5	51.0	11.5	8.5	2.0	0.0
Calving Success									
Calving Rate	8	105	92.0	10.8	105.0	100.0	95.0	82.5	76.0
Liveborn Calving Rate	8	100	88.9	11.8	100.0	100.0	90.0	81.0	69.0
Stillborn Rate	8	9	3.6	3.8	9.0	7.0	3.0	0.0	0.0
Assisted Calving Rate	8	55	14.6	17.7	55.0	17.0	11.5	2.5	0.0
Calf Survival and Treatment									
Calf Mortality Rate	8	10	2.1	3.6	10.0	3.5	0.0	0.0	0.0
Calf Treatment Rate	7	95	21.6	35.1	95.0	33.0	0.0	0.0	0.0
Productivity									
Weaned Calf Crop Rate	8	100	87.3	13.6	100.0	99.0	90.0	77.0	66.0
Average 200 Day Adjusted Weaning Weight (lbs)	7	682	601.4	69.9	682.0	648.0	621.0	563.0	471.0
Weight (lbs) Calf Weaned per Cow Exposed	7	667	515.4	116.9	667.0	621.0	491.0	396.0	393.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 5. Herd Management Practices Used by **Bruce County** Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	191	43	22.5
Ration formulation	191	47	24.6
Pasture improvement/rotation	191	154	80.6
Pregnancy examinations	191	161	84.3
Crossbreeding	191	154	80.6
Bull breeding soundness evaluation	191	43	22.5
Vaccinations	191	161	84.3
Deworming	191	152	79.6
Lice/warble treatment	191	182	95.3
Fly control	191	133	69.6
Postmortem examination	191	110	57.6
Vitamin E-Se injection	191	174	91.1
Growth promotants	191	39	20.4
Early dehorning	191	98	51.3
Polled	191	3	1.6
Early castration	191	123	64.4
Creep feeding	191	106	55.5

Table 6. Averages and Location of Measures of Herd Performance, Bruce County, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	191	220	8.8	17.8	20.0	10.0	5.0	1.0	0.0
Cows	191	426	51.2	43.3	97.0	61.0	40.0	27.0	20.0
Bulls	191	20	2.2	2.2	4.0	2.0	1.0	1.0	1.0
Exposed to Mating	191	466	57.6	51.7	110.0	68.0	44.0	29.0	20.0
Calves Weaned	190	426	49.4	42.9	93.5	59.0	38.0	26.0	17.0
Length of Calving Season									
Calving Spread (days)	188	358	124.3	69.2	219.0	155.5	109.0	77.0	54.0
Breeding Success / Removals									
Open Rate	191	44	4.1	6.1	10.0	5.0	3.0	0.0	0.0
Removed Rate	189	48	11.7	9.9	25.0	17.0	9.0	5.0	0.0
Calving Success									
Calving Rate	191	113	94.5	10.5	103.0	100.0	97.0	92.0	84.0
Liveborn Calving Rate	191	113	91.7	10.9	100.0	98.0	94.0	88.0	80.0
Stillborn Rate	191	24	3.1	3.9	8.0	5.0	2.0	0.0	0.0
Assisted Calving Rate	191	45	7.7	7.8	17.0	11.0	6.0	3.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	187	35	3.2	5.2	8.0	5.0	1.0	0.0	0.0
Calf Treatment Rate	186	100	11.3	15.8	29.0	14.0	6.5	1.0	0.0
Productivity									
Weaned Calf Crop Rate	190	113	89.1	11.3	100.0	97.0	92.0	83.0	75.0
Average 200 Day Adjusted Weaning Weight (lbs)	190	734	538.8	64.8	621.0	579.0	538.5	496.0	463.5
Weight (lbs) Calf Weaned per Cow Exposed	190	730	480.4	85.6	573.0	533.0	483.5	430.0	378.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 7. Herd Management Practices Used by Cochrane District Producers in the Ontario Red Meat II Herd Health Option in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	18	7	38.9
Ration formulation	18	7	38.9
Pasture improvement/rotation	18	18	100.0
Pregnancy examinations	18	12	66.7
Crossbreeding	18	13	72.2
Bull breeding soundness evaluation	18	6	33.3
Vaccinations	18	16	88.9
Deworming	18	14	77.8
Lice/warble treatment	18	14	77.8
Fly control	18	5	27.8
Postmortem examination	18	3	16.7
Vitamin E-Se injection	18	18	100.0
Growth promotants	18	5	27.8
Early dehorning	18	12	66.7
Polled	18	1	5.6
Early castration	18	13	72.2
Creep feeding	18	7	38.9

Table 8. Averages and Location of Measures of Herd Performance, Cochrane District, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	18	29	7.5	8.1	17.0	12.0	6.0	0.0	0.0
Cows	18	64	35.4	17.3	60.0	51.0	31.5	21.0	14.0
Bulls	18	2	1.5	0.6	2.0	2.0	2.0	1.0	1.0
Exposed to Mating	18	100	39.0	23.6	75.0	54.0	34.0	21.0	15.0
Calves Weaned	18	85	32.6	20.1	64.0	44.0	26.5	20.0	13.0
Length of Calving Season									
Calving Spread (days)	18	318	102.2	62.8	161.0	113.0	90.0	66.0	53.0
Breeding Success / Removals									
Open Rate	18	17	4.6	5.2	11.0	9.0	4.0	0.0	0.0
Removed Rate	18	33	11.7	9.9	27.0	19.0	9.0	5.0	0.0
Calving Success									
Calving Rate	18	105	94.1	6.6	100.0	100.0	94.5	89.0	83.0
Liveborn Calving Rate	18	105	89.9	9.8	100.0	100.0	90.5	83.0	77.0
Stillborn Rate	18	26	4.5	6.6	13.0	7.0	3.0	0.0	0.0
Assisted Calving Rate	18	41	9.6	11.6	26.0	15.0	5.5	0.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	18	20	6.3	5.3	15.0	9.0	6.0	3.0	0.0
Calf Treatment Rate	14	100	36.7	37.9	100.0	50.0	31.5	2.0	0.0
Productivity									
Weaned Calf Crop Rate	18	100	84.1	9.3	100.0	91.0	83.0	80.0	67.0
Average 200 Day Adjusted Weaning Weight (lbs)	18	676	556.3	58.1	656.0	592.0	543.5	511.0	482.0
Weight (lbs) Calf Weaned per Cow Exposed	18	656	470.5	88.4	632.0	523.0	450.5	414.0	365.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 9. Herd Management Practices Used by Dufferin County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	35	6	17.1
Ration formulation	35	4	11.4
Pasture improvement/rotation	35	32	91.4
Pregnancy examinations	35	28	80.0
Crossbreeding	35	25	71.4
Bull breeding soundness evaluation	35	7	20.0
Vaccinations	35	25	71.4
Deworming	35	30	85.7
Lice/warble treatment	35	33	94.3
Fly control	35	19	54.3
Postmortem examination	35	14	40.0
Vitamin E-Se injection	35	35	100.0
Growth promotants	35	7	20.0
Early dehorning	35	12	34.3
Polled	35	3	8.6
Early castration	35	22	62.9
Creep feeding	35	18	51.4

Table 10. Averages and Location of Measures of Herd Performance, Dufferin County, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	35	19	6.7	4.9	12.0	10.0	7.0	2.0	0.0
Cows	35	90	37.2	22.7	77.0	52.0	29.0	20.0	15.0
Bulls	35	4	1.5	0.9	3.0	2.0	1.0	1.0	1.0
Exposed to Mating	35	114	39.4	24.2	77.0	53.0	34.0	21.0	17.0
Calves Weaned	35	83	34.2	19.8	63.0	50.0	27.0	18.0	14.0
Length of Calving Season									
Calving Spread (days)	34	246	104.7	50.8	182.0	121.0	91.5	66.0	57.0
Breeding Success / Removals									
Open Rate	35	16	4.7	4.8	12.0	8.0	4.0	0.0	0.0
Removed Rate	35	25	11.1	6.9	21.0	15.0	11.0	6.0	0.0
Calving Success									
Calving Rate	35	112	94.4	10.0	103.0	100.0	97.0	86.0	76.0
Liveborn Calving Rate	35	109	91.2	10.5	102.0	100.0	94.0	82.0	75.0
Stillborn Rate	35	17	3.5	4.4	12.0	6.0	2.0	0.0	0.0
Assisted Calving Rate	35	33	7.8	8.7	18.0	12.0	6.0	0.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	35	11	2.9	3.5	10.0	5.0	2.0	0.0	0.0
Calf Treatment Rate	35	25	5.8	8.6	20.0	9.0	0.0	0.0	0.0
Productivity									
Weaned Calf Crop Rate	35	104	88.4	10.6	100.0	97.0	90.0	82.0	73.0
Average 200 Day Adjusted Weaning Weight (lbs)	35	705	551.7	69.8	627.0	591.0	572.0	488.0	462.0
Weight (lbs) Calf Weaned per Cow Exposed	35	648	487.8	84.3	618.0	538.0	485.0	435.0	385.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 11. Herd Management Practices Used by Dundas County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	7	4	57.1
Ration formulation	7	3	42.9
Pasture improvement/rotation	7	5	71.4
Pregnancy examinations	7	6	85.7
Crossbreeding	7	3	42.9
Bull breeding soundness evaluation	7	1	14.3
Vaccinations	7	5	71.4
Deworming	7	6	85.7
Lice/warble treatment	7	7	100.0
Fly control	7	5	71.4
Postmortem examination	7	2	28.6
Vitamin E-Se injection	7	7	100.0
Growth promotants	7	3	42.9
Early dehorning	7	6	85.7
Polled	7	0	0.0
Early castration	7	3	42.9
Creep feeding	7	5	71.4

Table 12. Averages and Location of Measures of Herd Performance, Dundas County, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	7	20	9.0	7.7	20.0	18.0	7.0	2.0	0.0
Cows	7	55	23.7	15.6	55.0	29.0	16.0	13.0	12.0
Bulls	7	12	3.0	4.1	12.0	3.0	2.0	1.0	0.0
Exposed to Mating	7	74	26.1	22.2	74.0	33.0	16.0	13.0	13.0
Calves Weaned	7	49	20.7	13.8	49.0	28.0	15.0	12.0	10.0
Length of Calving Season									
Calving Spread (days)	7	164	94.4	50.4	164.0	135.0	91.0	43.0	34.0
Breeding Success / Removals									
Open Rate	7	8	2.4	3.4	8.0	6.0	0.0	0.0	0.0
Removed Rate	7	28	17.0	9.1	28.0	23.0	20.0	12.0	0.0
Calving Success									
Calving Rate	7	100	93.7	9.7	100.0	100.0	97.0	92.0	73.0
Liveborn Calving Rate	7	100	91.7	9.1	100.0	100.0	92.0	91.0	73.0
Stillborn Rate	7	8	2.0	3.5	8.0	6.0	0.0	0.0	0.0
Assisted Calving Rate	7	21	11.0	8.5	21.0	19.0	13.0	0.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	7	17	7.3	6.3	17.0	13.0	7.0	0.0	0.0
Calf Treatment Rate	7	40	12.9	16.0	40.0	28.0	5.0	0.0	0.0
Productivity									
Weaned Calf Crop Rate	7	95	85.1	10.5	95.0	94.0	87.0	77.0	66.0
Average 200 Day Adjusted Weaning Weight (lbs)	7	725	600.6	69.5	725.0	616.0	610.0	527.0	513.0
Weight (lbs) Calf Weaned per Cow Exposed	7	578	508.4	64.9	578.0	558.0	529.0	447.0	404.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
average = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 13. Herd Management Practices Used by Durham East County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	11	6	54.5
Ration formulation	11	7	63.6
Pasture improvement/rotation	11	11	100.0
Pregnancy examinations	11	7	63.6
Crossbreeding	11	9	81.8
Bull breeding soundness evaluation	11	3	27.3
Vaccinations	11	8	72.7
Deworming	11	6	54.5
Lice/warble treatment	11	10	90.9
Fly control	11	10	90.9
Postmortem examination	11	5	45.5
Vitamin E-Se injection	11	10	90.9
Growth promotants	11	4	36.4
Early dehorning	11	3	27.3
Polled	11	2	18.2
Early castration	11	5	45.5
Creep feeding	11	10	90.9

Table 14. Averages and Location of Measures of Herd Performance, Durham East County, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	11	14	7.6	3.9	14.0	11.0	6.0	5.0	5.0
Cows	11	160	55.7	46.4	131.0	56.0	41.0	29.0	19.0
Bulls	11	5	2.0	1.4	3.0	3.0	2.0	1.0	1.0
Exposed to Mating	11	175	63.4	50.1	145.0	62.0	45.0	44.0	22.0
Calves Weaned	10	154	56.8	46.5	142.0	47.0	42.5	33.0	17.0
Length of Calving Season									
Calving Spread (days)	11	263	149.5	74.5	257.0	236.0	129.0	99.0	66.0
Breeding Success / Removals									
Open Rate	11	11	5.0	3.9	9.0	9.0	6.0	2.0	0.0
Removed Rate	11	54	15.5	15.0	24.0	21.0	11.0	7.0	0.0
Calving Success									
Calving Rate	11	100	92.6	5.3	100.0	98.0	93.0	89.0	89.0
Liveborn Calving Rate	11	100	89.4	7.6	96.0	96.0	91.0	85.0	77.0
Stillborn Rate	11	15	3.6	4.3	6.0	5.0	2.0	0.0	0.0
Assisted Calving Rate	11	10	3.4	4.1	10.0	8.0	2.0	0.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	9	31	4.0	10.2	31.0	2.0	0.0	0.0	0.0
Calf Treatment Rate	10	15	3.5	5.1	12.5	5.0	1.5	0.0	0.0
Productivity									
Weaned Calf Crop Rate	10	104	88.7	13.8	102.0	96.0	90.5	88.0	69.0
Average 200 Day Adjusted Weaning Weight (lbs)	9	611	556.2	76.6	611.0	595.0	580.0	574.0	369.0
Weight (lbs) Calf Weaned per Cow Exposed	8	595	504.8	64.3	595.0	538.0	518.0	473.0	385.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 15. Herd Management Practices Used by Durham West County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	27	6	22.2
Ration formulation	27	5	18.5
Pasture improvement/rotation	27	21	77.8
Pregnancy examinations	27	22	81.5
Crossbreeding	27	18	66.7
Bull breeding soundness evaluation	27	12	44.4
Vaccinations	27	24	88.9
Deworming	27	21	77.8
Lice/warble treatment	27	26	96.3
Fly control	27	19	70.4
Postmortem examination	27	11	40.7
Vitamin E-Se injection	27	27	100.0
Growth promotants	27	6	22.2
Early dehorning	27	16	59.3
Polled	27	2	7.4
Early castration	27	15	55.6
Creep feeding	27	12	44.4

Table 16. Averages and Location of Measures of Herd Performance, Durham West County, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	27	56	9.9	11.0	20.0	11.0	8.0	4.0	0.0
Cows	27	234	54.1	55.1	151.0	60.0	33.0	24.0	14.0
Bulls	27	15	2.3	3.2	6.0	2.0	1.0	1.0	0.0
Exposed to Mating	27	330	60.1	69.3	167.0	64.0	34.0	26.0	16.0
Calves Weaned	25	266	50.6	57.5	147.0	51.0	31.0	23.0	13.0
Length of Calving Season									
Calving Spread (days)	27	358	157.3	105.8	322.0	239.0	112.0	81.0	34.0
Breeding Success / Removals									
Open Rate	27	23	5.9	6.3	18.0	7.0	5.0	0.0	0.0
Removed Rate	26	51	13.0	11.9	25.0	18.0	12.0	3.0	0.0
Calving Success									
Calving Rate	27	108	92.2	9.2	100.0	100.0	95.0	84.0	77.0
Liveborn Calving Rate	27	108	89.5	9.3	100.0	96.0	91.0	83.0	76.0
Stillborn Rate	27	7	3.0	2.5	6.0	5.0	4.0	0.0	0.0
Assisted Calving Rate	27	22	8.7	6.8	18.0	15.0	6.0	3.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	25	21	4.4	5.1	11.0	7.0	4.0	0.0	0.0
Calf Treatment Rate	27	100	16.3	21.9	32.0	21.0	13.0	2.0	0.0
Productivity									
Weaned Calf Crop Rate	25	108	86.5	10.7	100.0	91.0	88.0	81.0	73.0
Average 200 Day Adjusted Weaning Weight (lbs)	25	732	531.6	86.3	643.0	585.0	527.0	459.0	414.0
Weight (lbs) Calf Weaned per Cow Exposed	24	605	460.8	90.2	595.0	541.0	445.0	375.5	349.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 17. Herd Management Practices Used by Elgin County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	31	17	54.8
Ration formulation	31	18	58.1
Pasture improvement/rotation	31	19	61.3
Pregnancy examinations	31	22	71.0
Crossbreeding	31	18	58.1
Bull breeding soundness evaluation	31	4	12.9
Vaccinations	31	23	74.2
Deworming	31	29	93.5
Lice/warble treatment	31	30	96.8
Fly control	31	22	71.0
Postmortem examination	31	16	51.6
Vitamin E-Se injection	31	24	77.4
Growth promotants	31	11	35.5
Early dehorning	31	22	71.0
Polled	31	0	0.0
Early castration	31	20	64.5
Creep feeding	31	17	54.8

Table 18. Averages and Location of Measures of Herd Performance, Elgin County, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	30	43	9.9	10.2	19.0	14.0	7.0	4.0	1.5
Cows	30	128	37.1	28.7	81.0	49.0	27.0	15.0	13.0
Bulls	30	6	1.8	1.5	4.0	3.0	1.0	1.0	0.0
Exposed to Mating	31	139	40.5	31.6	83.0	57.0	31.0	18.0	14.0
Calves Weaned	30	120	33.7	26.4	72.0	40.0	23.5	15.0	11.5
Length of Calving Season									
Calving Spread (days)	26	351	149.1	91.0	278.0	219.0	123.0	67.0	52.0
Breeding Success / Removals									
Open Rate	31	45	7.8	11.7	24.0	9.0	3.0	0.0	0.0
Removed Rate	29	40	9.9	9.8	21.0	15.0	9.0	0.0	0.0
Calving Success									
Calving Rate	31	109	90.8	14.3	104.0	100.0	95.0	83.0	76.0
Liveborn Calving Rate	31	106	88.7	14.9	100.0	100.0	94.0	81.0	75.0
Stillborn Rate	31	21	2.4	4.6	8.0	3.0	0.0	0.0	0.0
Assisted Calving Rate	31	58	12.2	13.3	30.0	13.0	8.0	5.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	30	33	4.1	7.0	12.0	5.0	1.0	0.0	0.0
Calf Treatment Rate	28	100	17.8	24.4	49.0	22.0	10.0	2.5	0.0
Productivity									
Weaned Calf Crop Rate	30	105	85.0	17.3	100.0	100.0	90.0	79.0	57.0
Average 200 Day Adjusted Weaning Weight (lbs)	29	695	521.6	74.3	625.0	568.0	512.0	482.0	413.0
Weight (lbs) Calf Weaned per Cow Exposed	28	710	439.7	112.4	566.0	500.5	455.5	405.5	274.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 19. Herd Management Practices Used by Essex County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	8	6	75.0
Ration formulation	8	4	50.0
Pasture improvement/rotation	8	4	50.0
Pregnancy examinations	8	4	50.0
Crossbreeding	8	8	100.0
Bull breeding soundness evaluation	8	3	37.5
Vaccinations	8	4	50.0
Deworming	8	5	62.5
Lice/warble treatment	8	6	75.0
Fly control	8	7	87.5
Postmortem examination	8	1	12.5
Vitamin E-Se injection	8	5	62.5
Growth promotants	8	4	50.0
Early dehorning	8	5	62.5
Polled	8	0	0.0
Early castration	8	6	75.0
Creep feeding	8	7	87.5

Table 20. Averages and Location of Measures of Herd Performance, Essex County, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	8	4	1.3	1.6	4.0	2.5	0.5	0.0	0.0
Cows	8	22	15.5	3.9	22.0	18.0	15.0	12.5	11.0
Bulls	8	1	0.6	0.5	1.0	1.0	1.0	0.5	0.0
Exposed to Mating	8	25	16.4	5.1	25.0	20.0	15.0	12.5	11.0
Calves Weaned	8	25	15.0	4.7	25.0	16.5	14.5	11.5	10.0
Length of Calving Season									
Calving Spread (days)	8	335	140.6	100.2	335.0	201.5	97.5	78.5	35.0
Breeding Success / Removals									
Open Rate	8	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Removed Rate	8	22	8.8	8.7	22.0	16.5	7.5	0.0	0.0
Calving Success									
Calving Rate	8	107	100.9	2.5	107.0	100.0	100.0	100.0	100.0
Liveborn Calving Rate	8	100	97.4	3.9	100.0	100.0	100.0	94.0	91.0
Stillborn Rate	8	9	3.6	4.2	9.0	8.0	2.0	0.0	0.0
Assisted Calving Rate	8	18	9.8	5.3	18.0	13.0	9.0	8.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	8	27	5.1	9.4	27.0	7.0	0.0	0.0	0.0
Calf Treatment Rate	8	55	20.4	22.0	55.0	40.5	13.5	0.0	0.0
Productivity									
Weaned Calf Crop Rate	8	100	92.4	9.9	100.0	100.0	93.0	91.5	70.0
Average 200 Day Adjusted Weaning Weight (lbs)	8	597	516.1	62.1	597.0	568.5	517.0	471.5	418.0
Weight (lbs) Calf Weaned per Cow Exposed	8	551	476.6	76.1	551.0	526.5	496.5	449.5	317.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 21. Herd Management Practices Used by Frontenac County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	29	11	37.9
Ration formulation	29	9	31.0
Pasture improvement/rotation	29	21	72.4
Pregnancy examinations	29	22	75.9
Crossbreeding	29	24	82.8
Bull breeding soundness evaluation	29	10	34.5
Vaccinations	29	27	93.1
Deworming	29	24	82.8
Lice/warble treatment	29	28	96.6
Fly control	29	23	79.3
Postmortem examination	29	11	37.9
Vitamin E-Se injection	29	24	82.8
Growth promotants	29	4	13.8
Early dehorning	29	20	69.0
Polled	29	1	3.4
Early castration	29	25	86.2
Creep feeding	29	11	37.9

Table 22. Averages and Location of Measures of Herd Performance, Frontenac County, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	28	45	7.6	9.1	17.0	10.0	5.0	2.0	0.0
Cows	28	210	38.6	38.9	62.0	47.5	27.5	15.0	13.0
Bulls	28	32	2.8	6.2	8.0	2.0	1.0	1.0	0.0
Exposed to Mating	29	255	39.4	45.9	60.0	48.0	25.0	18.0	12.0
Calves Weaned	29	231	35.7	41.8	52.0	40.0	23.0	17.0	12.0
Length of Calving Season									
Calving Spread (days)	28	358	124.8	81.4	254.0	157.0	100.0	70.5	47.0
Breeding Success / Removals									
Open Rate	29	31	5.6	6.5	12.0	8.0	4.0	0.0	0.0
Removed Rate	29	38	13.2	9.7	32.0	17.0	12.0	6.0	3.0
Calving Success									
Calving Rate	29	107	95.7	8.3	100.0	100.0	98.0	92.0	88.0
Liveborn Calving Rate	29	107	93.2	9.1	100.0	98.0	95.0	89.0	84.0
Stillborn Rate	29	12	2.6	3.3	6.0	4.0	2.0	0.0	0.0
Assisted Calving Rate	29	50	11.6	12.7	36.0	12.0	8.0	4.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	28	12	2.1	3.5	9.0	4.0	0.0	0.0	0.0
Calf Treatment Rate	27	67	10.1	13.9	25.0	14.0	6.0	0.0	0.0
Productivity									
Weaned Calf Crop Rate	29	106	91.5	10.5	100.0	100.0	95.0	84.0	78.0
Average 200 Day Adjusted Weaning Weight (lbs)	29	670	569.9	62.6	645.0	616.0	566.0	547.0	476.0
Weight (lbs) Calf Weaned per Cow Exposed	29	625	524.1	91.1	618.0	580.0	555.0	504.0	400.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 23. Herd Management Practices Used by Glengarry County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	21	10	47.6
Ration formulation	21	10	47.6
Pasture improvement/rotation	21	21	100.0
Pregnancy examinations	21	18	85.7
Crossbreeding	21	15	71.4
Bull breeding soundness evaluation	21	8	38.1
Vaccinations	21	21	100.0
Deworming	21	19	90.5
Lice/warble treatment	21	20	92.2
Fly control	21	13	61.9
Postmortem examination	21	4	19.0
Vitamin E-Se injection	21	20	95.2
Growth promotants	21	0	0.0
Early dehorning	21	10	47.6
Polled	21	1	4.8
Early castration	21	13	61.9
Creep feeding	21	9	42.9

Table 24. Averages and Location of Measures of Herd Performance, Glengarry County, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	21	15	6.1	4.3	12.0	9.0	5.0	3.0	2.0
Cows	21	40	19.8	8.0	30.0	25.0	17.0	14.0	11.0
Bulls	21	6	1.8	1.7	4.0	3.0	1.0	1.0	0.0
Exposed to Mating	21	40	21.1	8.0	30.0	26.0	21.0	15.0	12.0
Calves Weaned	21	30	18.1	6.1	26.0	21.0	18.0	14.0	10.0
Length of Calving Season									
Calving Spread (days)	20	234	103.9	56.9	198.5	137.0	86.5	66.0	44.0
Breeding Success / Removals									
Open Rate	20	29	4.8	7.1	12.0	7.0	2.0	0.0	0.0
Removed Rate	21	32	12.2	9.1	21.0	19.0	12.0	6.0	0.0
Calving Success									
Calving Rate	21	108	94.4	7.9	100.0	100.0	96.0	89.0	80.0
Liveborn Calving Rate	21	108	90.4	10.7	100.0	100.0	93.0	82.0	77.0
Stillborn Rate	21	20	4.5	6.2	11.0	7.0	3.0	0.0	0.0
Assisted Calving Rate	21	60	10.8	12.9	20.0	12.0	8.0	4.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	21	17	3.2	4.8	9.0	7.0	0.0	0.0	0.0
Calf Treatment Rate	21	83	14.5	21.8	43.0	25.0	0.0	0.0	0.0
Productivity									
Weaned Calf Crop Rate	21	100	87.4	10.3	100.0	96.0	90.0	80.0	75.0
Average 200 Day Adjusted Weaning Weight (lbs)	21	743	599.9	91.0	717.0	663.0	590.0	558.0	513.0
Weight (lbs) Calf Weaned per Cow Exposed	21	729	524.7	103.2	657.0	590.0	513.0	447.0	401.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 25. Herd Management Practices Used by Grenville County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	12	5	41.7
Ration formulation	12	6	50.0
Pasture improvement/rotation	12	10	83.3
Pregnancy examinations	12	10	83.3
Crossbreeding	12	7	58.3
Bull breeding soundness evaluation	12	2	16.7
Vaccinations	12	12	100.0
Deworming	12	10	83.3
Lice/warble treatment	12	11	91.7
Fly control	12	12	100.0
Postmortem examination	12	4	33.3
Vitamin E-Se injection	12	9	75.0
Growth promotants	12	2	16.7
Early dehorning	12	5	41.7
Polled	12	1	8.3
Early castration	12	7	58.3
Creep feeding	12	7	58.3

Table 26. Averages and Location of Measures of Herd Performance, Grenville County, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	12	28	5.5	7.7	8.0	7.0	4.0	0.5	0.0
Cows	12	89	23.8	21.3	31.0	23.0	17.0	13.0	12.0
Bulls	12	3	1.0	1.1	3.0	1.5	1.0	0.0	0.0
Exposed to Mating	12	89	26.4	20.8	34.0	27.5	21.0	16.0	12.0
Calves Weaned	12	89	24.2	21.4	32.0	25.0	16.0	14.0	12.0
Length of Calving Season									
Calving Spread (days)	12	122	85.4	26.7	111.0	107.0	84.5	75.0	48.0
Breeding Success / Removals									
Open Rate	12	14	3.8	4.8	10.0	7.0	1.5	0.0	0.0
Removed Rate	12	97	21.6	25.9	40.0	21.5	14.5	8.0	5.0
Calving Success									
Calving Rate	12	108	95.5	9.7	104.0	100.0	98.5	92.0	86.0
Liveborn Calving Rate	12	108	93.3	9.9	100.0	100.0	94.0	89.5	81.0
Stillborn Rate	12	11	2.3	3.5	6.0	4.0	0.0	0.0	0.0
Assisted Calving Rate	12	45	11.5	12.5	20.0	16.5	8.0	3.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	12	19	4.0	6.5	12.0	8.5	0.0	0.0	0.0
Calf Treatment Rate	12	100	20.3	30.1	47.0	33.5	6.0	0.0	0.0
Productivity									
Weaned Calf Crop Rate	12	100	89.5	10.7	100.0	100.0	92.0	82.5	71.0
Average 200 Day Adjusted Weaning Weight (lbs)	12	738	577.1	88.3	654.0	630.5	590.5	521.0	491.0
Weight (lbs) Calf Weaned per Cow Exposed	12	613	512.1	67.1	593.0	557.0	528.5	449.5	429.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 27. Herd Management Practices Used by Grey County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	154	39	25.3
Ration formulation	154	46	29.9
Pasture improvement/rotation	154	131	85.1
Pregnancy examinations	154	124	80.5
Crossbreeding	154	97	63.0
Bull breeding soundness evaluation	154	51	33.1
Vaccinations	154	134	87.0
Deworming	154	128	83.1
Lice/warble treatment	154	149	96.8
Fly control	154	106	68.8
Postmortem examination	154	71	46.1
Vitamin E-Se injection	154	139	90.3
Growth promotants	154	27	17.5
Early dehorning	154	83	41.7
Polled	154	8	5.2
Early castration	154	104	67.5
Creep feeding	154	88	57.1

Table 28. Averages and Location of Measures of Herd Performance, Grey County, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	154	43	7.6	7.9	15.0	10.0	5.0	2.0	0.0
Cows	154	231	44.7	33.7	76.0	54.0	36.0	24.0	16.0
Bulls	154	10	1.8	1.7	3.0	2.0	1.0	1.0	0.0
Exposed to Mating	153	325	47.5	37.9	90.0	54.0	38.0	25.0	19.0
Calves Weaned	152	220	41.1	29.7	76.0	49.5	35.0	23.0	17.0
Length of Calving Season									
Calving Spread (days)	149	357	152.4	81.1	284.0	215.0	127.0	90.0	61.0
Breeding Success / Removals									
Open Rate	152	28	3.8	5.2	10.0	5.5	2.0	0.0	0.0
Removed Rate	153	90	12.0	10.9	25.0	15.0	10.0	5.0	0.0
Calving Success									
Calving Rate	153	113	95.2	10.1	104.0	100.0	98.0	92.0	81.0
Liveborn Calving Rate	153	113	92.5	10.2	101.0	100.0	95.0	88.0	80.0
Stillborn Rate	153	16	2.9	3.1	6.0	5.0	2.0	0.0	0.0
Assisted Calving Rate	153	100	10.6	13.2	21.0	13.0	8.0	3.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	147	22	3.6	4.5	10.0	5.0	2.0	0.0	0.0
Calf Treatment Rate	153	100	14.5	19.5	29.0	18.0	9.0	4.0	0.0
Productivity									
Weaned Calf Crop Rate	152	112	89.4	10.4	100.0	96.0	92.0	83.5	76.0
Average 200 Day Adjusted Weaning Weight (lbs)	154	741	558.5	77.2	666.0	618.0	549.5	505.0	459.0
Weight (lbs) Calf Weaned per Cow Exposed	152	747	500.1	94.2	635.0	545.5	500.5	440.0	397.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 29. Herd Management Practices Used by Haldimand & Norfolk County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	18	3	16.7
Ration formulation	18	3	16.7
Pasture improvement/rotation	18	12	66.7
Pregnancy examinations	18	13	72.2
Crossbreeding	18	12	66.7
Bull breeding soundness evaluation	18	9	50.0
Vaccinations	18	8	44.4
Deworming	18	17	94.4
Lice/warble treatment	18	16	88.9
Fly control	18	13	72.2
Postmortem examination	18	8	44.4
Vitamin E-Se injection	18	16	88.9
Growth promotants	18	1	5.6
Early dehorning	18	10	55.6
Polled	18	2	11.1
Early castration	18	11	61.1
Creep feeding	18	13	72.2

Table 30. Averages and Location of Measures of Herd Performance, Haldimand Norfolk County, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	17	22	7.4	7.9	20.0	9.0	4.0	2.0	0.0
Cows	17	83	34.9	18.7	63.0	43.0	29.0	23.0	17.0
Bulls	17	19	3.0	4.5	8.0	2.0	2.0	1.0	1.0
Exposed to Mating	18	100	40.9	23.3	83.0	53.0	32.0	26.0	18.0
Calves Weaned	18	100	36.8	22.7	70.0	45.0	30.0	25.0	15.0
Length of Calving Season									
Calving Spread (days)	18	363	123.6	85.8	229.0	162.0	110.5	68.0	17.0
Breeding Success / Removals									
Open Rate	18	13	3.7	3.9	10.0	6.0	4.5	0.0	0.0
Removed Rate	18	23	11.7	6.6	21.0	15.0	12.0	6.0	4.0
Calving Success									
Calving Rate	18	103	96.0	6.2	100.0	100.0	100.0	94.0	87.0
Liveborn Calving Rate	18	102	92.9	6.8	100.0	100.0	93.5	89.0	81.0
Stillborn Rate	18	15	3.3	3.9	7.0	5.0	2.5	0.0	0.0
Assisted Calving Rate	18	53	12.2	14.1	32.0	19.0	8.0	0.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	17	25	5.1	7.5	17.0	11.0	1.0	0.0	0.0
Calf Treatment Rate	16	27	7.1	8.3	17.0	13.0	3.5	0.0	0.0
Productivity									
Weaned Calf Crop Rate	18	100	88.4	8.8	100.0	96.0	89.5	83.0	78.0
Average 200 Day Adjusted Weaning Weight (lbs)	17	676	555.8	66.7	657.0	593.0	567.0	507.0	461.0
Weight (lbs) Calf Weaned per Cow Exposed	17	591	493.1	78.8	584.0	558.0	515.0	430.0	369.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 31. Herd Management Practices Used by Haliburton District Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	1	0	0.0
Ration formulation	1	0	0.0
Pasture improvement/rotation	1	0	0.0
Pregnancy examinations	1	1	100.0
Crossbreeding	1	1	100.0
Bull breeding soundness evaluation	1	0	0.0
Vaccinations	1	1	100.0
Deworming	1	0	0.0
Lice/warble treatment	1	1	100.0
Fly control	1	0	0.0
Postmortem examination	1	1	100.0
Vitamin E-Se injection	1	1	100.0
Growth promotants	1	1	100.0
Early dehorning	1	1	100.0
Polled	1	0	100.0
Early castration	1	1	100.0
Creep feeding	1	1	100.0

Table 32. Averages and Location of Measures of Herd Performance, Haliburton District, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	1	4	4.0	.	4.0	4.0	4.0	4.0	4.0
Cows	1	53	53.0	.	53.0	53.0	53.0	53.0	53.0
Bulls	1	3	3.0	.	3.0	3.0	3.0	3.0	3.0
Exposed to Mating	1	57	57.0	.	57.0	57.0	57.0	57.0	57.0
Calves Weaned	1	56	56.0	.	56.0	56.0	56.0	56.0	56.0
Length of Calving Season									
Calving Spread (days)	1	165	165.0	.	165.0	165.0	165.0	165.0	165.0
Breeding Success / Removals									
Open Rate	1	0	0.0	.	0.0	0.0	0.0	0.0	0.0
Removed Rate	1	16	16.0	.	16.0	16.0	16.0	16.0	16.0
Calving Success									
Calving Rate	1	100	100.0	.	100.0	100.0	100.0	100.0	100.0
Liveborn Calving Rate	1	100	100.0	.	100.0	100.0	100.0	100.0	100.0
Stillborn Rate	1	0	0.0	.	0.0	0.0	0.0	0.0	0.0
Assisted Calving Rate	1	9	9.0	.	9.0	9.0	9.0	9.0	9.0
Calf Survival and Treatment									
Calf Mortality Rate	1	2	2.0	.	2.0	2.0	2.0	2.0	2.0
Calf Treatment Rate	1	35	35.0	.	35.0	35.0	35.0	35.0	35.0
Productivity									
Weaned Calf Crop Rate	1	98	98.0	.	98.0	98.0	98.0	98.0	98.0
Average 200 Day Adjusted Weaning Weight (lbs)	1	582	582.0	.	582.0	582.0	582.0	582.0	582.0
Weight (lbs) Calf Weaned per Cow Exposed	1	572	572.0	.	572.0	572.0	572.0	572.0	572.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 33. Herd Management Practices Used by Halton County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	5	0	0.0
Ration formulation	5	0	0.0
Pasture improvement/rotation	5	5	100.0
Pregnancy examinations	5	5	100.0
Crossbreeding	5	5	100.0
Bull breeding soundness evaluation	5	2	40.0
Vaccinations	5	4	80.0
Deworming	5	3	60.0
Lice/warble treatment	5	5	100.0
Fly control	5	3	60.0
Postmortem examination	5	2	40.0
Vitamin E-Se injection	5	5	100.0
Growth promotants	5	0	0.0
Early dehorning	5	1	20.0
Polled	5	2	40.0
Early castration	1	1	100.0
Creep feeding	5	4	80.0

Table 34. Averages and Location of Measures of Herd Performance, Halton County, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	5	14	6.8	4.3	14.0	7.0	6.0	4.0	3.0
Cows	5	66	35.6	17.0	66.0	30.0	28.0	27.0	27.0
Bulls	5	2	1.4	0.5	2.0	2.0	1.0	1.0	1.0
Exposed to Mating	5	80	39.2	22.9	80.0	31.0	31.0	30.0	24.0
Calves Weaned	4	28	25.8	2.6	28.0	28.0	26.0	23.5	23.0
Length of Calving Season									
Calving Spread (days)	5	334	177.8	93.0	334.0	166.0	160.0	144.0	85.0
Breeding Success / Removals									
Open Rate	5	4	2.0	1.9	4.0	3.0	3.0	0.0	0.0
Removed Rate	5	13	7.2	6.2	13.0	12.0	10.0	1.0	0.0
Calving Success									
Calving Rate	5	103	91.6	13.5	103.0	100.0	100.0	83.0	72.0
Liveborn Calving Rate	5	100	88.6	13.5	100.0	97.0	97.0	80.0	69.0
Stillborn Rate	5	7	3.8	2.6	7.0	5.0	4.0	3.0	0.0
Assisted Calving Rate	5	16	8.4	6.4	16.0	12.0	10.0	4.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	4	7	4.5	3.3	7.0	7.0	5.5	2.0	0.0
Calf Treatment Rate	5	18	7.2	6.8	18.0	8.0	7.0	3.0	0.0
Productivity									
Weaned Calf Crop Rate	4	100	89.3	9.4	100.0	95.0	90.0	83.5	77.0
Average 200 Day Adjusted Weaning Weight (lbs)	5	659	594.6	40.8	659.0	603.0	587.0	573.0	551.0
Weight (lbs) Calf Weaned per Cow Exposed	4	595	530.0	76.9	595.0	584.0	551.5	476.0	422.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 35. Herd Management Practices Used by Hamilton-Wentworth County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	8	0	0.0
Ration formulation	8	1	12.5
Pasture improvement/rotation	8	4	50.0
Pregnancy examinations	8	6	75.0
Crossbreeding	8	5	62.5
Bull breeding soundness evaluation	8	1	12.5
Vaccinations	8	5	62.5
Deworming	8	7	87.5
Lice/warble treatment	8	7	87.5
Fly control	8	4	50.0
Postmortem examination	8	5	62.5
Vitamin E-Se injection	8	7	87.5
Growth promotants	8	0	0.0
Early dehorning	8	4	50.0
Polled	8	0	0.0
Early castration	8	4	50.0
Creep feeding	8	6	75.0

Table 36. Averages and Location of Measures of Herd Performance, Hamilton-Wentworth County, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	8	39	10.9	12.5	39.0	13.0	9.0	2.0	0.0
Cows	8	61	26.8	14.8	61.0	27.5	24.5	17.5	14.0
Bulls	8	7	2.8	2.4	7.0	4.0	2.0	1.0	1.0
Exposed to Mating	8	70	28.1	17.7	70.0	27.5	25.0	17.5	15.0
Calves Weaned	8	29	20.6	7.2	29.0	27.0	22.0	14.0	10.0
Length of Calving Season									
Calving Spread (days)	8	357	171.9	100.2	357.0	240.5	134.0	92.0	85.0
Breeding Success / Removals									
Open Rate	8	33	11.8	10.9	33.0	18.0	9.0	3.5	0.0
Removed Rate	7	23	9.6	8.9	23.0	20.0	5.0	3.0	0.0
Calving Success									
Calving Rate	8	100	87.9	11.2	100.0	98.0	88.0	82.0	67.0
Liveborn Calving Rate	8	100	85.5	14.1	100.0	98.0	88.0	76.0	60.0
Stillborn Rate	8	11	3.1	4.5	11.0	7.0	0.0	0.0	0.0
Assisted Calving Rate	8	33	7.8	10.7	33.0	7.5	6.0	1.0	0.0
Calf Survival and Treatment									
Calf Mortality Rate	8	33	7.3	11.2	33.0	9.0	3.5	0.0	0.0
Calf Treatment Rate	7	93	17.3	33.6	93.0	9.0	7.0	0.0	0.0
Productivity									
Weaned Calf Crop Rate	8	100	80.4	20.1	100.0	98.0	80.5	73.0	40.0
Average 200 Day Adjusted Weaning Weight (lbs)	8	666	523.8	117.9	666.0	601.0	564.5	423.5	346.0
Weight (lbs) Calf Weaned per Cow Exposed	8	616	431.6	160.9	616.0	570.5	442.5	334.5	142.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 37. Herd Management Practices Used by Hastings County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	42	23	54.8
Ration formulation	42	20	47.6
Pasture improvement/rotation	42	33	78.6
Pregnancy examinations	42	34	81.0
Crossbreeding	42	33	78.6
Bull breeding soundness evaluation	42	10	23.8
Vaccinations	42	37	88.1
Deworming	42	32	76.2
Lice/warble treatment	42	39	93.0
Fly control	42	34	81.0
Postmortem examination	42	15	35.7
Vitamin E-Se injection	42	34	81.0
Growth promotants	42	10	23.8
Early dehorning	42	26	61.9
Polled	42	2	4.8
Early castration	42	31	73.8
Creep feeding	42	26	61.9

Table 38. Averages and Location of Measures of Herd Performance, Hastings County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	42	31	7.0	7.3	15.0	10.0	5.0	1.0	0
Cows	42	89	35.4	21.3	68.0	50.0	29.5	17.0	13.0
Bulls	42	10	1.6	1.9	2.0	2.0	1.0	1.0	0
Exposed to Mating	42	88	35.9	20.5	68.0	52.0	30.0	17.0	14
Calves Weaned	41	80	32.6	19.3	61.0	48.0	29.0	17.0	13.0
Length of Calving Season									
Calving Spread (days)	41	364	139.4	83.5	269.0	165.0	114.0	82.0	64.0
Breeding Success / Removals									
Open Rate	42	25	3.8	5.9	12.0	6.0	1.0	0.0	0
Removed Rate	42	36	10.9	8.9	23.0	15.0	10.0	4.0	0
Calving Success									
Calving Rate	42	106	95.5	7.6	100.0	100.0	100.0	94.0	86.0
Liveborn Calving Rate	42	106	92.6	8.9	100.0	100.0	94.0	89.0	82.0
Stillborn Rate	42	15	3.1	3.3	7.0	5.0	3.0	0.0	0
Assisted Calving Rate	42	61	9.2	13.2	15.0	11.0	6.0	1.0	0
Calf Survival and Treatment									
Calf Mortality Rate	41	14	2.5	3.9	10.0	4.0	0.0	0.0	0
Calf Treatment Rate	40	100	12.1	22.4	23.5	14.0	5.0	0.0	0
Productivity									
Weaned Calf Crop Rate	41	106	90.3	9.5	100.0	97.0	91.0	87.0	80
Average 200 Day Adjusted Weaning Weight (lbs)	42	687	554.4	74.1	643.0	599.0	558.5	500.0	445.0
Weight (lbs) Calf Weaned per Cow Exposed	41	683	502.9	85.9	608.0	582.0	500.0	452.0	392.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 39. Herd Management Practices Used by Huron County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	77	15	19.5
Ration formulation	77	11	14.3
Pasture improvement/rotation	77	58	75.3
Pregnancy examinations	77	71	92.2
Crossbreeding	77	63	81.8
Bull breeding soundness evaluation	77	21	27.3
Vaccinations	77	69	89.6
Deworming	77	69	89.6
Lice/warble treatment	77	76	98.7
Fly control	77	55	71.4
Postmortem examination	77	40	51.9
Vitamin E-Se injection	77	70	90.9
Growth promotants	77	29	37.7
Early dehorning	77	46	59.7
Polled	77	12	1.3
Early castration	77	48	62.3
Creep feeding	77	50	64.9

Table 40. Averages and Location of Measures of Herd Performance, Huron County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	77	74	8.5	12.3	20.0	10.0	5.0	1.0	0
Cows	77	183	45.9	35.6	87.0	51.0	35.0	23.0	16.0
Bulls	77	10	1.8	1.6	3.0	2.0	1.0	1.0	0
Exposed to Mating	77	232	49.4	42.3	89.0	56.0	35.0	24.0	17
Calves Weaned	77	212	43.9	38.9	79.0	54.0	31.0	22.0	16.0
Length of Calving Season									
Calving Spread (days)	75	365	140.4	86.1	309.0	183.0	120.0	76.0	49.0
Breeding Success / Removals									
Open Rate	77	89	5.5	10.7	11.0	7.0	3.0	0.0	0
Removed Rate	75	33	10.3	7.4	20.0	15.0	9.0	5.0	0
Calving Success									
Calving Rate	77	108	95.0	11.3	102.0	100.0	97.0	92.0	87.0
Liveborn Calving Rate	77	105	91.6	11.7	100.0	98.0	94.0	88.0	80.0
Stillborn Rate	77	23	3.7	4.4	9.0	5.0	3.0	0.0	0
Assisted Calving Rate	77	58	10.8	11.6	28.0	15.0	7.0	3.0	0
Calf Survival and Treatment									
Calf Mortality Rate	76	31	3.0	5.0	9.0	4.0	0.0	0.0	0
Calf Treatment Rate	75	100	15.3	21.2	40.0	18.0	9.0	3.0	0
Productivity									
Weaned Calf Crop Rate	77	105	88.9	12.4	100.0	96.0	91.0	85.0	77
Average 200 Day Adjusted Weaning Weight (lbs)	76	701	552.7	69.0	659.0	606.5	551.0	503.5	461.0
Weight (lbs) Calf Weaned per Cow Exposed	76	734	497.9	86.1	620.0	554.0	491.5	437.0	388.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 41. Herd Management Practices Used by Kenora District Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	4	1	25.0
Ration formulation	4	2	50.0
Pasture improvement/rotation	4	4	100.0
Pregnancy examinations	4	4	100.0
Crossbreeding	4	2	50.0
Bull breeding soundness evaluation	4	1	25.0
Vaccinations	4	4	100.0
Deworming	4	3	75.0
Lice/warble treatment	4	4	100.0
Fly control	4	3	75.0
Postmortem examination	4	4	100.0
Vitamin E-Se injection	4	3	75.0
Growth promotants	4	2	50.0
Early dehorning	4	3	75.0
Polled	4	1	25.0
Early castration	4	3	75.0
Creep feeding	4	2	50.0

Table 42. Averages and Location of Measures of Herd Performance, Kenora District, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	4	17	8.8	6.2	17.0	13.5	7.5	4.0	3.0
Cows	4	115	50.5	43.8	115.0	77.5	33.5	23.5	20.0
Bulls	4	4	2.5	1.0	4.0	3.0	2.0	2.0	2
Exposed to Mating	4	133	56.0	51.8	133.0	86.5	34.0	25.5	23
Calves Weaned	4	123	51.3	48.8	123.0	81.5	32.5	21.0	17.0
Length of Calving Season									
Calving Spread (days)	4	288	128.8	106.7	288.0	188.5	82.0	69.0	63.0
Breeding Success / Removals									
Open Rate	4	9	4.3	4.4	9.0	8.0	4.0	0.5	0
Removed Rate	4	13	6.5	5.7	13.0	11.0	6.5	2.0	0
Calving Success									
Calving Rate	4	100	97.0	3.2	100.0	99.5	97.5	94.5	93.0
Liveborn Calving Rate	4	100	93.8	5.4	100.0	97.5	94.0	90.0	87.0
Stillborn Rate	4	10	3.5	4.7	10.0	7.0	2.0	0.0	0
Assisted Calving Rate	4	29	11.8	12.9	29.0	21.5	9.0	2.0	0
Calf Survival and Treatment									
Calf Mortality Rate	4	15	5.5	6.6	15.0	9.5	3.5	1.5	0
Calf Treatment Rate	4	100	53.3	54.1	100.0	100.0	55.0	6.5	3
Productivity									
Weaned Calf Crop Rate	4	100	88.8	10.9	100.0	96.0	90.5	81.5	74
Average 200 Day Adjusted Weaning Weight (lbs)	4	617	551.5	44.2	617.0	577.0	534.0	526.0	521.0
Weight (lbs) Calf Weaned per Cow Exposed	4	617	492.5	92.9	617.0	549.5	480.5	435.5	392.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 43. Herd Management Practices Used by Kent County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	12	6	50.0
Ration formulation	12	5	41.7
Pasture improvement/rotation	12	8	66.7
Pregnancy examinations	12	11	91.7
Crossbreeding	12	9	75.0
Bull breeding soundness evaluation	12	5	41.7
Vaccinations	12	8	66.7
Deworming	12	10	83.3
Lice/warble treatment	12	12	100.0
Fly control	12	9	75.0
Postmortem examination	12	4	33.3
Vitamin E-Se injection	12	11	91.7
Growth promotants	12	5	41.7
Early dehorning	12	8	66.7
Polled	12	1	8.3
Early castration	12	9	75.0
Creep feeding	12	8	66.7

Table 44. Averages and Location of Measures of Herd Performance, Kent County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	12	32	12.5	9.9	30.0	16.0	9.0	7.5	4.0
Cows	12	98	39.3	26.7	73.0	49.5	39.5	16.5	12.0
Bulls	12	7	2.4	2.2	6.0	3.0	2.0	1.0	0
Exposed to Mating	12	98	41.4	26.3	75.0	50.5	43.5	18.5	14
Calves Weaned	12	94	38.7	25.4	72.0	48.0	38.0	18.0	13.0
Length of Calving Season									
Calving Spread (days)	11	208	111.2	45.9	160.0	147.0	97.0	85.0	68.0
Breeding Success / Removals									
Open Rate	12	14	2.2	4.2	6.0	2.5	0.0	0.0	0
Removed Rate	12	39	12.1	10.3	21.0	15.5	10.0	6.0	2.0
Calving Success									
Calving Rate	12	107	98.4	5.9	103.0	101.5	100.0	96.0	92.0
Liveborn Calving Rate	12	105	94.2	8.0	101.0	99.0	95.0	91.5	90.0
Stillborn Rate	12	13	4.3	3.9	9.0	6.5	3.0	1.5	0
Assisted Calving Rate	12	53	12.8	15.4	28.0	17.5	9.0	1.5	0
Calf Survival and Treatment									
Calf Mortality Rate	12	5	1.0	1.5	2.0	2.0	0.0	0.0	0
Calf Treatment Rate	11	63	13.2	18.9	32.0	16.0	6.0	0.0	0
Productivity									
Weaned Calf Crop Rate	12	102	93.1	7.2	100.0	96.0	94.0	91.5	90
Average 200 Day Adjusted Weaning Weight (lbs)	12	654	511.3	78.4	597.0	574.0	515.0	432.5	424.0
Weight (lbs) Calf Weaned per Cow Exposed	12	607	476.7	87.9	597.0	554.5	465.0	399.0	381.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 45. Herd Management Practices Used by **Lambton County** Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	33	10	30.3
Ration formulation	33	14	42.4
Pasture improvement/rotation	33	21	63.6
Pregnancy examinations	33	21	63.6
Crossbreeding	33	28	84.8
Bull breeding soundness evaluation	33	6	18.2
Vaccinations	33	27	81.8
Deworming	33	30	90.9
Lice/warble treatment	33	31	93.9
Fly control	33	23	69.7
Postmortem examination	33	11	33.3
Vitamin E-Se injection	33	30	90.9
Growth promotants	33	11	33.3
Early dehorning	33	15	45.5
Polled	33	2	6.1
Early castration	33	15	45.5
Creep feeding	33	22	66.7

Table 46. Averages and Location of Measures of Herd Performance, Lambton County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	33	30	5.2	6.4	10.0	7.0	4.0	0.0	0
Cows	33	163	50.9	41.9	129.0	61.0	40.0	25.0	13.0
Bulls	33	6	1.8	1.4	4.0	2.0	1.0	1.0	1
Exposed to Mating	33	170	53.5	45.5	145.0	59.0	40.0	27.0	13
Calves Weaned	31	161	48.5	43.9	133.0	55.0	33.0	20.0	12.0
Length of Calving Season									
Calving Spread (days)	33	244	117.9	58.0	206.0	152.0	107.0	78.0	44.0
Breeding Success / Removals									
Open Rate	33	18	3.8	4.6	10.0	7.0	2.0	0.0	0
Removed Rate	32	31	7.6	7.8	18.0	12.5	5.5	0.0	0
Calving Success									
Calving Rate	33	113	96.3	6.0	103.0	100.0	97.0	93.0	88.0
Liveborn Calving Rate	33	113	94.0	7.2	102.0	97.0	95.0	91.0	86.0
Stillborn Rate	33	17	2.3	3.7	7.0	3.0	0.0	0.0	0
Assisted Calving Rate	33	100	9.1	17.4	17.0	11.0	4.0	1.0	0
Calf Survival and Treatment									
Calf Mortality Rate	30	34	4.6	8.5	11.5	4.0	1.0	0.0	0
Calf Treatment Rate	30	100	9.5	18.4	17.5	11.0	6.0	0.0	0
Productivity									
Weaned Calf Crop Rate	31	113	90.2	11.0	100.0	95.0	92.0	85.0	80
Average 200 Day Adjusted Weaning Weight (lbs)	29	657	528.3	77.8	623.0	596.0	525.0	481.0	409.0
Weight (lbs) Calf Weaned per Cow Exposed	28	626	472.9	88.9	593.0	545.0	481.0	416.5	343.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 47. Herd Management Practices Used by **Lanark County** Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	70	22	31.4
Ration formulation	70	18	25.7
Pasture improvement/rotation	70	57	81.4
Pregnancy examinations	70	55	78.6
Crossbreeding	70	58	82.9
Bull breeding soundness evaluation	70	20	28.6
Vaccinations	70	59	84.3
Deworming	70	46	65.7
Lice/warble treatment	70	65	92.9
Fly control	70	53	75.7
Postmortem examination	70	25	35.7
Vitamin E-Se injection	70	62	88.6
Growth promotants	70	14	20.0
Early dehorning	70	38	54.3
Polled	70	9	12.9
Early castration	70	59	84.3
Creep feeding	70	34	48.6

Table 48. Averages and Location of Measures of Herd Performance, Lanark County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	70	38	7.0	7.5	15.5	10.0	5.0	2.0	0
Cows	70	140	35.1	24.6	63.5	42.0	30.0	17.0	14.0
Bulls	70	10	1.3	1.4	2.5	2.0	1.0	1.0	0
Exposed to Mating	70	150	37.8	28.4	67.5	47.0	30.0	18.0	14
Calves Weaned	68	138	32.2	25.2	54.0	37.0	26.5	16.5	12.0
Length of Calving Season									
Calving Spread (days)	67	355	149.3	98.3	311.0	218.0	108.0	73.0	47.0
Breeding Success / Removals									
Open Rate	70	31	3.9	5.5	9.0	7.0	2.0	0.0	0
Removed Rate	70	59	12.9	11.5	27.5	20.0	11.5	4.0	0
Calving Success									
Calving Rate	70	108	92.6	11.4	101.5	100.0	96.5	87.0	77.5
Liveborn Calving Rate	70	107	90.4	11.9	100.0	100.0	93.5	86.0	74.5
Stillborn Rate	70	14	2.5	3.4	7.5	4.0	0.0	0.0	0
Assisted Calving Rate	70	37	5.2	6.6	11.5	8.0	4.0	0.0	0
Calf Survival and Treatment									
Calf Mortality Rate	64	24	3.2	5.3	9.0	4.0	0.0	0.0	0
Calf Treatment Rate	68	100	16.5	28.2	71.0	18.0	6.0	0.0	0
Productivity									
Weaned Calf Crop Rate	68	106	88.5	13.1	100.0	100.0	92.5	80.0	66
Average 200 Day Adjusted Weaning Weight (lbs)	70	675	538.4	61.9	619.5	589.0	541.0	497.0	461.5
Weight (lbs) Calf Weaned per Cow Exposed	68	643	478.7	92.4	595.0	546.0	484.0	412.0	370.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 49. Herd Management Practices Used by Leeds County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	12	3	25.0
Ration formulation	12	3	25.0
Pasture improvement/rotation	12	11	91.7
Pregnancy examinations	12	10	83.3
Crossbreeding	12	7	58.3
Bull breeding soundness evaluation	12	4	33.3
Vaccinations	12	12	100.0
Deworming	12	11	91.7
Lice/warble treatment	12	10	83.3
Fly control	12	11	91.7
Postmortem examination	12	7	58.3
Vitamin E-Se injection	12	10	83.3
Growth promotants	12	1	8.3
Early dehorning	12	11	91.7
Polled	12	1	8.3
Early castration	12	9	75.0
Creep feeding	12	8	66.7

Table 50. Averages and Location of Measures of Herd Performance, Leeds County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	12	26	7.9	7.9	15.0	13.5	5.5	1.0	0
Cows	12	60	29.0	16.6	51.0	43.5	24.5	13.5	13.0
Bulls	12	3	1.6	0.9	3.0	2.0	1.5	1.0	1
Exposed to Mating	12	66	30.8	18.4	60.0	43.5	25.0	16.0	13
Calves Weaned	12	57	26.3	14.5	40.0	38.5	22.5	13.5	12.0
Length of Calving Season									
Calving Spread (days)	12	363	191.5	107.3	333.0	280.5	186.0	91.0	86.0
Breeding Success / Removals									
Open Rate	12	11	2.8	3.7	8.0	4.5	1.5	0.0	0
Removed Rate	12	39	10.8	12.3	30.0	13.5	7.5	2.0	0
Calving Success									
Calving Rate	12	109	93.5	11.5	103.0	100.0	96.5	89.5	78.0
Liveborn Calving Rate	12	100	89.4	11.9	100.0	98.0	92.0	88.5	67.0
Stillborn Rate	12	18	4.5	6.3	15.0	7.5	2.0	0.0	0
Assisted Calving Rate	12	28	8.7	8.0	15.0	12.5	8.5	2.5	0
Calf Survival and Treatment									
Calf Mortality Rate	12	12	1.8	3.7	5.0	2.0	0.0	0.0	0
Calf Treatment Rate	12	35	12.0	11.4	25.0	21.0	9.5	2.0	0
Productivity									
Weaned Calf Crop Rate	12	100	87.8	11.9	100.0	94.0	90.5	87.5	67
Average 200 Day Adjusted Weaning Weight (lbs)	12	758	581.7	97.8	692.0	656.0	560.0	518.0	450.0
Weight (lbs) Calf Weaned per Cow Exposed	12	707	511.1	113.4	629.0	607.0	501.5	416.5	390.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 51. Herd Management Practices Used by Lennox.Addington County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	29	11	37.9
Ration formulation	29	10	34.5
Pasture improvement/rotation	29	19	65.5
Pregnancy examinations	29	22	75.9
Crossbreeding	29	24	82.8
Bull breeding soundness evaluation	29	8	27.6
Vaccinations	29	24	82.8
Deworming	29	18	62.1
Lice/warble treatment	29	25	86.2
Fly control	29	20	69.0
Postmortem examination	29	8	27.6
Vitamin E-Se injection	29	25	86.2
Growth promotants	29	5	17.2
Early dehorning	29	19	65.5
Polled	29	0	0.0
Early castration	29	17	58.6
Creep feeding	29	20	69.0

Table 52. Averages and Location of Measures of Herd Performance, Lennox. Addington County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	29	19	8.0	5.5	15.0	13.0	7.0	3.0	1.0
Cows	29	93	37.6	19.5	68.0	50.0	39.0	23.0	14.0
Bulls	29	9	2.0	1.8	3.0	2.0	2.0	1.0	1
Exposed to Mating	29	88	38.6	17.7	61.0	50.0	38.0	25.0	17
Calves Weaned	29	86	34.4	17.6	53.0	47.0	35.0	20.0	12.0
Length of Calving Season									
Calving Spread (days)	29	302	117.4	66.9	240.0	142.0	102.0	83.0	47.0
Breeding Success / Removals									
Open Rate	29	24	4.4	6.2	15.0	6.0	2.0	0.0	0
Removed Rate	29	30	12.3	8.7	25.0	18.0	10.0	6.0	0
Calving Success									
Calving Rate	29	104	94.2	7.9	100.0	100.0	97.0	91.0	80.0
Liveborn Calving Rate	29	104	91.5	9.5	100.0	98.0	95.0	88.0	74.0
Stillborn Rate	29	12	3.0	3.5	8.0	6.0	2.0	0.0	0
Assisted Calving Rate	29	25	8.6	7.2	19.0	11.0	7.0	4.0	0
Calf Survival and Treatment									
Calf Mortality Rate	28	20	4.5	6.7	15.0	10.5	0.0	0.0	0
Calf Treatment Rate	29	100	21.9	29.2	81.0	17.0	12.0	6.0	0
Productivity									
Weaned Calf Crop Rate	29	100	87.9	12.5	100.0	96.0	91.0	85.0	60
Average 200 Day Adjusted Weaning Weight (lbs)	29	672	567.0	62.4	656.0	606.0	570.0	507.0	474.0
Weight (lbs) Calf Weaned per Cow Exposed	29	672	500.4	101.3	621.0	580.0	500.0	435.0	364.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 53. Herd Management Practices Used by Manitoulin Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	44	39	88.6
Ration formulation	44	25	56.8
Pasture improvement/rotation	44	32	72.7
Pregnancy examinations	44	35	79.5
Crossbreeding	44	41	93.2
Bull breeding soundness evaluation	44	4	9.1
Vaccinations	44	39	88.6
Deworming	44	42	95.5
Lice/warble treatment	44	40	90.9
Fly control	44	28	63.6
Postmortem examination	44	12	27.3
Vitamin E-Se injection	44	31	70.5
Growth promotants	44	15	34.1
Early dehorning	44	30	68.2
Polled	44	2	4.5
Early castration	44	30	68.2
Creep feeding	44	33	75.0

Table 54. Averages and Location of Measures of Herd Performance, Manitoulin Island, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	44	68	9.3	11.4	17.0	12.0	6.5	3.0	0
Cows	44	190	57.9	37.3	100.0	77.5	52.5	26.5	22.0
Bulls	44	8	1.9	1.5	3.0	3.0	1.0	1.0	1
Exposed to Mating	44	220	55.8	40.4	103.0	70.5	43.0	28.5	23
Calves Weaned	40	206	47.5	37.7	96.5	54.5	37.5	24.0	16.5
Length of Calving Season									
Calving Spread (days)	43	339	148.6	78.2	265.0	209.0	127.0	83.0	60.0
Breeding Success / Removals									
Open Rate	44	35	4.8	5.9	9.0	7.0	4.0	0.0	0
Removed Rate	44	35	10.6	7.7	20.0	15.5	8.0	5.0	4.0
Calving Success									
Calving Rate	44	104	94.5	7.5	100.0	100.0	96.0	92.0	86.0
Liveborn Calving Rate	44	102	90.9	8.0	100.0	97.0	91.5	88.0	83.0
Stillborn Rate	44	15	3.8	3.6	8.0	6.0	3.0	0.0	0
Assisted Calving Rate	44	15	4.2	3.9	9.0	7.0	3.5	0.0	0
Calf Survival and Treatment									
Calf Mortality Rate	39	33	3.2	6.4	10.0	4.0	0.0	0.0	0
Calf Treatment Rate	44	100	13.9	22.5	26.0	18.5	6.0	2.0	0
Productivity									
Weaned Calf Crop Rate	40	100	87.9	9.6	99.5	94.5	89.0	84.5	72
Average 200 Day Adjusted Weaning Weight (lbs)	44	694	550.9	54.0	619.0	589.5	543.0	514.0	488.0
Weight (lbs) Calf Weaned per Cow Exposed	40	610	485.5	64.5	555.0	531.5	492.5	447.0	388.5

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 55. Herd Management Practices Used by Middlesex County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	29	8	27.6
Ration formulation	29	6	20.7
Pasture improvement/rotation	29	23	79.3
Pregnancy examinations	29	21	72.4
Crossbreeding	29	22	75.9
Bull breeding soundness evaluation	29	9	31.0
Vaccinations	29	20	69.0
Deworming	29	27	93.1
Lice/warble treatment	29	28	96.6
Fly control	29	25	86.2
Postmortem examination	29	11	37.9
Vitamin E-Se injection	29	24	82.8
Growth promotants	29	12	41.4
Early dehorning	29	15	51.7
Polled	29	1	3.4
Early castration	29	20	69.0
Creep feeding	29	16	55.2

Table 56. Averages and Location of Measures of Herd Performance, Middlesex County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	29	38	10.9	10.3	31.0	14.0	8.0	4.0	0
Cows	29	193	52.4	41.6	111.0	65.0	42.0	23.0	18.0
Bulls	29	7	2.1	1.4	4.0	2.0	2.0	1.0	1
Exposed to Mating	29	192	56.6	43.9	123.0	65.0	45.0	26.0	14
Calves Weaned	28	154	45.9	37.6	104.0	56.0	36.0	21.5	13.0
Length of Calving Season									
Calving Spread (days)	28	253	145.3	61.5	225.0	212.0	136.0	90.5	76.0
Breeding Success / Removals									
Open Rate	29	15	6.1	4.4	12.0	10.0	6.0	3.0	0
Removed Rate	29	23	11.4	6.7	21.0	15.0	11.0	7.0	0
Calving Success									
Calving Rate	29	100	91.4	10.7	100.0	98.0	93.0	88.0	82.0
Liveborn Calving Rate	29	100	87.6	10.2	97.0	93.0	89.0	83.0	79.0
Stillborn Rate	29	21	4.1	4.9	11.0	7.0	3.0	0.0	0
Assisted Calving Rate	29	57	8.3	11.2	19.0	8.0	6.0	2.0	0
Calf Survival and Treatment									
Calf Mortality Rate	28	27	4.9	5.9	13.0	6.5	3.5	0.0	0
Calf Treatment Rate	28	95	16.8	19.8	42.0	22.5	11.0	5.0	0
Productivity									
Weaned Calf Crop Rate	28	100	83.4	10.8	93.0	90.5	85.5	79.0	70
Average 200 Day Adjusted Weaning Weight (lbs)	29	660	543.5	76.5	645.0	604.0	539.0	498.0	422.0
Weight (lbs) Calf Weaned per Cow Exposed	28	613	452.5	79.1	584.0	479.0	457.5	410.5	374.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 57. Herd Management Practices Used by Muskoka District Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	3	0	0.0
Ration formulation	3	0	0.0
Pasture improvement/rotation	3	2	66.7
Pregnancy examinations	3	3	100.0
Crossbreeding	3	3	100.0
Bull breeding soundness evaluation	3	0	0.0
Vaccinations	3	2	66.7
Deworming	3	3	100.0
Lice/warble treatment	3	3	100.0
Fly control	3	3	100.0
Postmortem examination	3	1	33.3
Vitamin E-Se injection	3	3	100.0
Growth promotants	3	0	0.0
Early dehorning	3	1	33.3
Polled	3	0	0.0
Early castration	3	3	100.0
Creep feeding	3	2	66.7

Table 58. Averages and Location of Measures of Herd Performance, Muskoka District, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	2	4	2.5	2.1	4.0	4.0	2.5	1.0	1.0
Cows	2	60	40.5	27.6	60.0	60.0	40.5	21.0	21.0
Bulls	2	1	1.0	0.0	1.0	1.0	1.0	1.0	1
Exposed to Mating	3	32	25.3	5.9	32.0	32.0	23.0	21.0	21
Calves Weaned	3	30	23.3	6.5	30.0	30.0	23.0	17.0	17.0
Length of Calving Season									
Calving Spread (days)	3	228	202.0	28.2	228.0	228.0	206.0	172.0	172.0
Breeding Success / Removals									
Open Rate	3	10	3.3	5.8	10.0	10.0	0.0	0.0	0
Removed Rate	3	22	13.0	8.5	22.0	22.0	12.0	5.0	5.0
Calving Success									
Calving Rate	3	100	96.7	5.8	100.0	100.0	100.0	90.0	90.0
Liveborn Calving Rate	3	100	93.3	7.0	100.0	100.0	94.0	86.0	86.0
Stillborn Rate	3	6	3.7	3.2	6.0	6.0	5.0	0.0	0
Assisted Calving Rate	3	22	13.0	8.5	22.0	22.0	12.0	5.0	5.0
Calf Survival and Treatment									
Calf Mortality Rate	3	6	2.0	3.5	6.0	6.0	0.0	0.0	0
Calf Treatment Rate	2	6	3.0	4.2	6.0	6.0	3.0	0.0	0
Productivity									
Weaned Calf Crop Rate	3	100	91.7	9.7	100.0	100.0	94.0	81.0	81
Average 200 Day Adjusted Weaning Weight (lbs)	3	521	473.7	46.5	521.0	521.0	472.0	428.0	428.0
Weight (lbs) Calf Weaned per Cow Exposed	3	521	436.3	87.6	521.0	521.0	442.0	346.0	346.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 59. Herd Management Practices Used by Niagara District Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	3	1	33.3
Ration formulation	3	1	33.3
Pasture improvement/rotation	3	3	100.0
Pregnancy examinations	3	2	66.7
Crossbreeding	3	3	100.0
Bull breeding soundness evaluation	3	2	66.7
Vaccinations	3	3	100.0
Deworming	3	2	66.7
Lice/warble treatment	3	3	100.0
Fly control	3	1	33.3
Postmortem examination	3	1	33.3
Vitamin E-Se injection	3	3	100.0
Growth promotants	3	0	0.0
Early dehorning	3	2	66.7
Polled	3	0	0.0
Early castration	3	3	100.0
Creep feeding	3	1	33.3

Table 60. Averages and Location of Measures of Herd Performance, Niagara District, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	3	8	4.7	3.1	8.0	8.0	4.0	2.0	2.0
Cows	3	55	30.0	21.9	55.0	55.0	21.0	14.0	14.0
Bulls	8	2	1.0	0.5	2.0	1.0	1.0	1.0	0
Exposed to Mating	3	55	29.7	22.3	55.0	55.0	21.0	13.0	13
Calves Weaned	3	49	27.3	18.9	49.0	49.0	19.0	14.0	14.0
Length of Calving Season									
Calving Spread (days)	3	256	181.3	124.2	256.0	256.0	250.0	38.0	38.0
Breeding Success / Removals									
Open Rate	3	9	7.3	2.1	9.0	9.0	8.0	5.0	5
Removed Rate	3	7	4.0	3.6	7.0	7.0	5.0	0.0	0
Calving Success									
Calving Rate	3	108	97.3	9.7	108.0	108.0	95.0	89.0	89.0
Liveborn Calving Rate	3	108	95.7	10.7	108.0	108.0	90.0	89.0	89.0
Stillborn Rate	3	5	1.7	2.9	5.0	5.0	0.0	0.0	0
Assisted Calving Rate	3	20	7.3	11.0	20.0	20.0	2.0	0.0	0
Calf Survival and Treatment									
Calf Mortality Rate	3	0	0.0	0.0	0.0	0.0	0.0	0.0	0
Calf Treatment Rate	3	100	41.3	52.2	100.0	100.0	24.0	0.0	0
Productivity									
Weaned Calf Crop Rate	3	108	95.7	10.7	108.0	108.0	90.0	89.0	89
Average 200 Day Adjusted Weaning Weight (lbs)	3	604	516.0	95.2	604.0	604.0	529.0	415.0	415.0
Weight (lbs) Calf Weaned per Cow Exposed	3	650	498.7	139.6	650.0	650.0	471.0	375.0	375.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 61. Herd Management Practices Used by Nipissing District Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	8	5	62.5
Ration formulation	8	4	50.0
Pasture improvement/rotation	8	4	50.0
Pregnancy examinations	8	6	75.0
Crossbreeding	8	5	62.5
Bull breeding soundness evaluation	8	0	0.0
Vaccinations	8	6	75.0
Deworming	8	4	50.0
Lice/warble treatment	8	6	75.0
Fly control	8	5	62.5
Postmortem examination	8	1	12.5
Vitamin E-Se injection	8	8	100.0
Growth promotants	8	0	0.0
Early dehorning	8	6	75.0
Polled	8	2	25.0
Early castration	8	5	62.5
Creep feeding	8	3	37.5

Table 62. Averages and Location of Measures of Herd Performance, Nipissing District, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	8	22	7.4	7.9	22.0	12.0	4.0	2.0	1.0
Cows	8	36	19.4	9.7	36.0	25.0	20.5	10.0	8.0
Bulls	8	2	1.0	0.5	2.0	1.0	1.0	1.0	0
Exposed to Mating	8	34	20.1	9.1	34.0	27.0	20.5	11.0	10
Calves Weaned	8	34	18.9	8.8	34.0	25.0	18.0	11.5	8.0
Length of Calving Season									
Calving Spread (days)	8	125	72.1	29.2	125.0	89.0	68.5	51.0	35.0
Breeding Success / Removals									
Open Rate	8	13	1.6	4.6	13.0	0.0	0.0	0.0	0
Removed Rate	8	20	9.5	6.2	20.0	12.5	10.5	5.0	0
Calving Success									
Calving Rate	8	100	97.8	4.7	100.0	100.0	100.0	97.5	87.0
Liveborn Calving Rate	8	100	93.5	7.7	100.0	100.0	95.5	88.5	80.0
Stillborn Rate	8	20	4.3	7.2	20.0	7.0	0.0	0.0	0
Assisted Calving Rate	8	9	2.5	3.6	9.0	5.5	0.0	0.0	0
Calf Survival and Treatment									
Calf Mortality Rate	7	16	2.3	6.0	16.0	0.0	0.0	0.0	0
Calf Treatment Rate	8	100	39.6	50.3	100.0	100.0	7.5	0.0	0
Productivity									
Weaned Calf Crop Rate	8	118	94.0	13.4	118.0	100.0	95.5	83.5	76
Average 200 Day Adjusted Weaning Weight (lbs)	7	645	583.1	56.9	645.0	632.0	583.0	575.0	470.0
Weight (lbs) Calf Weaned per Cow Exposed	7	747	555.7	112.2	747.0	645.0	546.0	461.0	438.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 63. Herd Management Practices Used by **Northumberland County** Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	31	9	29.0
Ration formulation	31	7	22.6
Pasture improvement/rotation	31	17	54.8
Pregnancy examinations	31	28	90.3
Crossbreeding	31	26	83.9
Bull breeding soundness evaluation	31	3	9.7
Vaccinations	31	25	80.6
Deworming	31	25	80.6
Lice/warble treatment	31	31	100.0
Fly control	31	24	77.4
Postmortem examination	31	12	38.7
Vitamin E-Se injection	31	27	87.1
Growth promotants	31	10	32.3
Early dehorning	31	18	58.1
Polled	31	4	12.9
Early castration	31	25	80.6
Creep feeding	31	19	61.3

Table 64. Averages and Location of Measures of Herd Performance, Northumberland County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	31	21	5.8	4.4	12.0	8.0	4.0	3.0	2.0
Cows	31	95	30.1	20.9	57.0	38.0	23.0	16.0	13.0
Bulls	31	5	1.6	1.2	3.0	2.0	1.0	1.0	1
Exposed to Mating	31	103	33.4	22.1	63.0	43.0	25.0	18.0	15
Calves Weaned	31	92	29.5	19.4	53.0	38.0	22.0	15.0	13.0
Length of Calving Season									
Calving Spread (days)	29	363	148.4	91.3	338.0	199.0	93.0	83.0	66.0
Breeding Success / Removals									
Open Rate	31	18	5.3	5.6	13.0	11.0	5.0	0.0	0
Removed Rate	30	46	16.1	12.5	35.5	21.0	12.5	6.0	2.5
Calving Success									
Calving Rate	31	100	94.1	6.1	100.0	100.0	96.0	89.0	84.0
Liveborn Calving Rate	31	100	91.0	7.7	100.0	100.0	91.0	87.0	83.0
Stillborn Rate	31	14	3.4	4.1	8.0	6.0	2.0	0.0	0
Assisted Calving Rate	31	50	9.0	12.2	21.0	12.0	4.0	0.0	0
Calf Survival and Treatment									
Calf Mortality Rate	29	35	2.9	6.7	8.0	4.0	0.0	0.0	0
Calf Treatment Rate	29	100	14.8	21.9	50.0	21.0	7.0	0.0	0
Productivity									
Weaned Calf Crop Rate	31	100	88.6	9.1	100.0	97.0	89.0	83.0	79
Average 200 Day Adjusted Weaning Weight (lbs)	31	683	557.1	65.3	628.0	608.0	572.0	495.0	481.0
Weight (lbs) Calf Weaned per Cow Exposed	31	669	493.4	78.4	595.0	556.0	490.0	421.0	404.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 65. Herd Management Practices Used by **Ottawa.Carlton County** Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	48	12	25.0
Ration formulation	48	10	20.8
Pasture improvement/rotation	48	36	75.0
Pregnancy examinations	48	39	81.2
Crossbreeding	48	22	45.8
Bull breeding soundness evaluation	48	13	27.1
Vaccinations	48	45	93.7
Deworming	48	43	89.6
Lice/warble treatment	48	45	93.7
Fly control	48	36	75.0
Postmortem examination	48	17	35.4
Vitamin E-Se injection	48	45	93.7
Growth promotants	48	5	10.4
Early dehorning	48	25	52.1
Polled	48	2	4.2
Early castration	48	31	64.6
Creep feeding	48	25	52.1

Table 66. Averages and Location of Measures of Herd Performance, Ottawa.Carlton County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	45	35	8.4	8.1	21.0	12.0	6.0	2.0	1.0
Cows	45	138	32.5	25.0	59.0	39.0	24.0	18.0	13.0
Bulls	46	13	2.0	2.6	5.0	2.0	1.0	1.0	0
Exposed to Mating	48	140	33.4	25.6	66.0	38.5	24.5	19.5	13
Calves Weaned	48	113	28.6	20.6	58.0	33.0	21.0	16.0	12.0
Length of Calving Season									
Calving Spread (days)	46	334	130.6	63.5	221.0	161.0	118.0	88.0	57.0
Breeding Success / Removals									
Open Rate	47	22	4.6	4.9	9.0	7.0	5.0	0.0	0
Removed Rate	48	56	13.9	13.5	34.0	18.5	10.5	5.0	0
Calving Success									
Calving Rate	48	112	95.3	7.6	100.0	100.0	96.0	93.0	88.0
Liveborn Calving Rate	48	108	91.4	8.6	100.0	97.5	92.0	88.5	78.0
Stillborn Rate	48	24	4.1	5.4	11.0	5.5	3.0	0.0	0
Assisted Calving Rate	48	30	8.9	8.1	21.0	12.0	8.0	1.0	0
Calf Survival and Treatment									
Calf Mortality Rate	46	33	5.0	7.4	15.0	8.0	0.0	0.0	0
Calf Treatment Rate	47	100	14.2	21.7	40.0	15.0	10.0	0.0	0
Productivity									
Weaned Calf Crop Rate	48	108	87.4	11.5	100.0	95.5	88.5	81.0	71
Average 200 Day Adjusted Weaning Weight (lbs)	47	743	569.0	67.5	642.0	615.0	560.0	521.0	484.0
Weight (lbs) Calf Weaned per Cow Exposed	47	698	497.5	96.9	624.0	555.0	512.0	431.0	357.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 67. Herd Management Practices Used by **Oxford County** Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	16	7	43.7
Ration formulation	16	7	43.7
Pasture improvement/rotation	16	10	62.5
Pregnancy examinations	16	16	100.0
Crossbreeding	16	11	68.7
Bull breeding soundness evaluation	16	5	31.3
Vaccinations	16	14	87.5
Deworming	16	9	56.2
Lice/warble treatment	16	13	81.2
Fly control	16	13	81.2
Postmortem examination	16	7	43.7
Vitamin E-Se injection	16	14	87.5
Growth promotants	16	5	31.3
Early dehorning	16	10	62.5
Polled	16	1	6.2
Early castration	16	12	75.0
Creep feeding	16	13	81.2

Table 68. Averages and Location of Measures of Herd Performance, Oxford County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	16	29	6.3	7.2	14.0	7.0	5.0	1.0	0
Cows	16	116	48.8	32.6	112.0	63.0	42.0	23.5	17.0
Bulls	16	4	2.0	1.3	4.0	3.0	1.5	1.0	1
Exposed to Mating	16	112	49.4	30.3	94.0	69.0	44.0	23.5	17
Calves Weaned	16	100	43.1	28.3	94.0	53.0	39.0	20.0	14.0
Length of Calving Season									
Calving Spread (days)	16	334	140.8	69.1	216.0	175.0	119.0	89.0	82.0
Breeding Success / Removals									
Open Rate	16	15	4.4	4.9	11.0	8.0	2.0	0.0	0
Removed Rate	15	60	13.6	14.7	24.0	18.0	11.0	4.0	3.0
Calving Success									
Calving Rate	16	129	97.8	10.3	106.0	100.0	99.0	92.0	85.0
Liveborn Calving Rate	16	100	90.2	7.4	98.0	96.5	91.5	84.5	79.0
Stillborn Rate	16	41	7.9	10.1	17.0	10.0	5.5	2.0	0
Assisted Calving Rate	16	76	11.0	19.1	31.0	8.5	6.0	1.0	0
Calf Survival and Treatment									
Calf Mortality Rate	15	17	5.1	4.8	9.0	8.0	6.0	0.0	0
Calf Treatment Rate	16	100	26.3	31.4	93.0	39.0	14.0	2.5	0
Productivity									
Weaned Calf Crop Rate	16	100	86.2	9.4	96.0	94.0	88.5	80.5	74
Average 200 Day Adjusted Weaning Weight (lbs)	16	649	525.9	69.0	602.0	579.0	531.0	475.5	424.0
Weight (lbs) Calf Weaned per Cow Exposed	16	572	452.6	73.3	531.0	504.5	472.5	405.0	350.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 69. Herd Management Practices Used by **Parry Sound District** Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	4	2	50.0
Ration formulation	4	1	25.0
Pasture improvement/rotation	4	3	75.0
Pregnancy examinations	4	4	100.0
Crossbreeding	4	1	25.0
Bull breeding soundness evaluation	4	1	25.0
Vaccinations	4	3	75.0
Deworming	4	4	100.0
Lice/warble treatment	4	3	75.0
Fly control	4	2	50.0
Postmortem examination	4	0	0.0
Vitamin E-Se injection	4	3	75.0
Growth promotants	4	1	25.0
Early dehorning	4	2	50.0
Polled	4	0	0.0
Early castration	4	3	75.0
Creep feeding	4	2	50.0

Table 70. Averages and Location of Measures of Herd Performance, Parry Sound District, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	4	6	4.5	1.7	6.0	5.5	5.0	3.5	2.0
Cows	4	42	23.8	12.5	42.0	31.5	19.5	16.0	14.0
Bulls	4	1	1.0	0.0	1.0	1.0	1.0	1.0	1
Exposed to Mating	4	47	29.3	14.7	47.0	41.0	28.0	17.5	14
Calves Weaned	4	34	25.3	9.8	34.0	33.5	26.5	17.0	14.0
Length of Calving Season									
Calving Spread (days)	4	163	113.5	45.4	163.0	152.0	108.0	75.0	75.0
Breeding Success / Removals									
Open Rate	4	3	0.8	1.5	3.0	1.5	0.0	0.0	0
Removed Rate	4	46	25.0	19.1	46.0	38.0	27.0	12.0	0
Calving Success									
Calving Rate	4	100	93.0	14.0	100.0	100.0	100.0	86.0	72.0
Liveborn Calving Rate	4	100	91.3	14.4	100.0	100.0	97.5	82.5	70.0
Stillborn Rate	4	5	2.0	2.4	5.0	4.0	1.5	0.0	0
Assisted Calving Rate	4	21	13.8	8.1	21.0	20.0	15.5	7.5	3.0
Calf Survival and Treatment									
Calf Mortality Rate	4	3	0.8	1.5	3.0	1.5	0.0	0.0	0
Calf Treatment Rate	4	23	7.5	10.8	23.0	15.0	3.5	0.0	0
Productivity									
Weaned Calf Crop Rate	4	100	90.5	13.8	100.0	98.5	96.0	82.5	70
Average 200 Day Adjusted Weaning Weight (lbs)	4	703	554.5	101.8	703.0	620.0	517.5	489.0	480.0
Weight (lbs) Calf Weaned per Cow Exposed	4	511	492.3	18.9	511.0	504.5	496.0	480.0	466.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 71. Herd Management Practices Used by Peel County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	10	3	30.0
Ration formulation	10	3	30.0
Pasture improvement/rotation	10	6	60.0
Pregnancy examinations	10	9	90.0
Crossbreeding	10	5	50.0
Bull breeding soundness evaluation	10	1	10.0
Vaccinations	10	8	80.0
Deworming	10	9	90.0
Lice/warble treatment	10	10	100.0
Fly control	10	7	70.0
Postmortem examination	10	6	60.0
Vitamin E-Se injection	10	9	90.0
Growth promotants	10	3	30.0
Early dehorning	10	6	60.0
Polled	10	0	0.0
Early castration	10	6	60.0
Creep feeding	10	9	90.0

Table 72. Averages and Location of Measures of Herd Performance, Peel County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	10	25	9.3	8.2	23.0	12.0	7.0	3.0	1.5
Cows	10	83	41.5	23.3	81.0	50.0	35.5	25.0	19.0
Bulls	10	4	1.4	1.5	3.5	3.0	1.0	0.0	0
Exposed to Mating	10	83	44.7	25.7	81.5	75.0	38.0	26.0	17
Calves Weaned	10	59	34.1	16.4	56.5	47.0	32.5	20.0	14.5
Length of Calving Season									
Calving Spread (days)	10	209	121.2	44.3	188.0	166.0	105.5	87.0	81.5
Breeding Success / Removals									
Open Rate	10	39	10.0	13.3	32.5	17.0	5.5	0.0	0
Removed Rate	10	25	11.5	9.7	23.5	22.0	10.5	2.0	0
Calving Success									
Calving Rate	10	111	89.3	16.6	107.5	100.0	94.5	74.0	66.0
Liveborn Calving Rate	10	104	83.8	14.4	99.5	94.0	89.0	69.0	63.0
Stillborn Rate	10	22	6.2	6.5	15.0	8.0	5.5	0.0	0
Assisted Calving Rate	10	12	7.0	4.3	12.0	11.0	7.5	3.0	1.5
Calf Survival and Treatment									
Calf Mortality Rate	10	17	3.8	6.2	15.0	4.0	0.0	0.0	0
Calf Treatment Rate	9	100	16.7	31.9	100.0	15.0	5.0	0.0	0
Productivity									
Weaned Calf Crop Rate	10	100	80.7	15.4	97.5	93.0	85.0	65.0	58
Average 200 Day Adjusted Weaning Weight (lbs)	10	775	572.9	109.7	741.0	648.0	546.5	522.0	443.0
Weight (lbs) Calf Weaned per Cow Exposed	10	775	474.4	167.1	701.5	616.0	451.5	349.0	256.5

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 73. Herd Management Practices Used by Perth County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	35	12	34.3
Ration formulation	35	13	37.1
Pasture improvement/rotation	35	25	71.4
Pregnancy examinations	35	31	88.6
Crossbreeding	35	23	65.7
Bull breeding soundness evaluation	35	7	20.0
Vaccinations	35	29	82.9
Deworming	35	30	85.7
Lice/warble treatment	35	35	100.0
Fly control	35	26	74.3
Postmortem examination	35	14	40.0
Vitamin E-Se injection	35	31	88.6
Growth promotants	35	8	22.9
Early dehorning	35	24	68.6
Polled	35	3	8.6
Early castration	35	22	62.9
Creep feeding	35	21	60.0

Table 74. Averages and Location of Measures of Herd Performance, Perth County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	35	32	9.7	8.5	23.0	11.0	7.0	4.0	2.0
Cows	35	130	39.3	26.1	72.0	58.0	30.0	20.0	12.0
Bulls	35	30	2.4	4.9	4.0	2.0	1.0	1.0	0
Exposed to Mating	35	135	43.8	27.7	78.0	60.0	38.0	20.0	14
Calves Weaned	35	96	36.6	22.2	65.0	51.0	27.0	20.0	11.0
Length of Calving Season									
Calving Spread (days)	35	352	173.9	99.6	304.0	279.0	149.0	91.0	62.0
Breeding Success / Removals									
Open Rate	35	21	3.7	5.1	9.0	6.0	2.0	0.0	0
Removed Rate	35	54	11.9	12.9	33.0	16.0	8.0	3.0	0
Calving Success									
Calving Rate	35	106	95.1	7.1	101.0	100.0	97.0	91.0	82.0
Liveborn Calving Rate	35	105	91.3	9.6	100.0	99.0	92.0	88.0	76.0
Stillborn Rate	35	40	3.9	6.8	7.0	5.0	2.0	0.0	0
Assisted Calving Rate	35	74	11.5	14.3	28.0	15.0	7.0	3.0	0
Calf Survival and Treatment									
Calf Mortality Rate	35	28	7.1	7.3	17.0	10.0	5.0	0.0	0
Calf Treatment Rate	35	100	21.3	26.2	52.0	32.0	11.0	5.0	0
Productivity									
Weaned Calf Crop Rate	35	100	84.8	10.5	96.0	93.0	86.0	76.0	69
Average 200 Day Adjusted Weaning Weight (lbs)	33	716	541.9	64.7	619.0	591.0	539.0	497.0	466.0
Weight (lbs) Calf Weaned per Cow Exposed	33	596	455.4	73.2	552.0	500.0	457.0	412.0	352.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 75. Herd Management Practices Used by Peterborough County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	77	10	13.0
Ration formulation	77	10	13.0
Pasture improvement/rotation	77	55	71.4
Pregnancy examinations	77	59	76.6
Crossbreeding	77	59	76.6
Bull breeding soundness evaluation	77	19	24.7
Vaccinations	77	65	84.4
Deworming	77	61	79.2
Lice/warble treatment	77	75	97.4
Fly control	77	60	77.9
Postmortem examination	77	19	24.7
Vitamin E-Se injection	77	71	92.2
Growth promotants	77	12	15.6
Early dehorning	77	51	66.2
Polled	77	7	9.1
Early castration	77	53	68.8
Creep feeding	77	45	58.4

Table 76. Averages and Location of Measures of Herd Performance, **Peterborough County**, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	77	33	8.6	7.2	20.0	12.0	6.0	4.0	2.0
Cows	77	130	40.2	28.0	88.0	50.0	32.0	21.0	13.0
Bulls	77	45	2.5	5.9	4.0	2.0	1.0	1.0	1
Exposed to Mating	77	140	42.1	29.5	84.0	54.0	33.0	22.0	14
Calves Weaned	75	113	36.4	24.9	73.0	49.0	30.0	16.0	13.0
Length of Calving Season									
Calving Spread (days)	75	364	159.9	85.3	302.0	215.0	123.0	104.0	73.0
Breeding Success / Removals									
Open Rate	77	47	5.1	8.2	11.0	7.0	3.0	0.0	0
Removed Rate	77	66	12.3	11.4	22.0	15.0	11.0	6.0	0
Calving Success									
Calving Rate	77	108	93.1	10.3	102.0	100.0	96.0	91.0	79.0
Liveborn Calving Rate	77	105	90.5	10.5	100.0	100.0	92.0	87.0	76.0
Stillborn Rate	77	17	2.9	3.6	8.0	5.0	2.0	0.0	0
Assisted Calving Rate	76	31	8.7	7.8	20.0	14.5	7.0	1.5	0
Calf Survival and Treatment									
Calf Mortality Rate	75	32	2.9	5.9	10.0	4.0	0.0	0.0	0
Calf Treatment Rate	75	100	19.3	28.3	71.0	25.0	8.0	0.0	0
Productivity									
Weaned Calf Crop Rate	75	105	87.9	12.6	100.0	100.0	91.0	81.0	69
Average 200 Day Adjusted Weaning Weight (lbs)	77	685	555.1	63.2	628.0	599.0	555.0	523.0	479.0
Weight (lbs) Calf Weaned per Cow Exposed	75	721	489.1	96.9	596.0	555.0	503.0	441.0	375.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 77. Herd Management Practices Used by Prescott County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	12	4	33.3
Ration formulation	12	4	33.3
Pasture improvement/rotation	12	12	100.0
Pregnancy examinations	12	9	75.0
Crossbreeding	12	12	100.0
Bull breeding soundness evaluation	12	3	25.0
Vaccinations	12	11	91.7
Deworming	12	11	91.7
Lice/warble treatment	12	10	83.3
Fly control	12	10	83.3
Postmortem examination	12	2	16.7
Vitamin E-Se injection	12	10	83.3
Growth promotants	12	2	16.7
Early dehorning	12	8	66.7
Polled	12	0	0.0
Early castration	12	11	91.7
Creep feeding	12	5	41.7

Table 78. Averages and Location of Measures of Herd Performance, Prescott County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	12	102	19.4	30.1	54.0	19.5	8.0	3.5	0
Cows	12	338	65.9	90.4	105.0	70.0	35.5	18.0	13.0
Bulls	12	24	3.4	6.6	5.0	2.0	1.0	1.0	1
Exposed to Mating	12	510	85.5	139.7	159.0	70.0	36.0	19.5	17
Calves Weaned	12	382	68.1	102.6	100.0	68.5	35.0	16.5	13.0
Length of Calving Season									
Calving Spread (days)	12	195	81.8	44.0	120.0	94.0	73.5	58.5	50.0
Breeding Success / Removals									
Open Rate	12	11	4.0	4.4	10.0	8.5	3.0	0.0	0
Removed Rate	11	33	13.5	9.7	26.0	20.0	12.0	7.0	3.0
Calving Success									
Calving Rate	12	104	90.6	12.1	100.0	100.0	93.0	85.5	71.0
Liveborn Calving Rate	12	100	88.6	12.4	100.0	98.5	93.0	80.0	71.0
Stillborn Rate	12	6	2.3	2.5	6.0	4.5	1.5	0.0	0
Assisted Calving Rate	12	64	16.6	17.3	31.0	19.5	12.5	6.0	1.0
Calf Survival and Treatment									
Calf Mortality Rate	12	5	0.8	1.8	4.0	0.0	0.0	0.0	0
Calf Treatment Rate	10	25	10.1	8.9	23.5	18.0	8.0	4.0	0
Productivity									
Weaned Calf Crop Rate	12	100	87.9	12.5	100.0	97.0	93.0	78.0	71
Average 200 Day Adjusted Weaning Weight (lbs)	11	659	567.1	53.9	605.0	590.0	583.0	528.0	499.0
Weight (lbs) Calf Weaned per Cow Exposed	10	619	445.8	100.7	598.0	529.0	428.5	375.0	337.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 79. Herd Management Practices Used by Prince Edward County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	10	3	30.0
Ration formulation	10	3	30.0
Pasture improvement/rotation	10	7	70.0
Pregnancy examinations	10	9	90.0
Crossbreeding	10	4	40.0
Bull breeding soundness evaluation	10	3	30.0
Vaccinations	10	9	90.0
Deworming	10	9	90.0
Lice/warble treatment	10	10	100.0
Fly control	10	8	80.0
Postmortem examination	10	3	30.0
Vitamin E-Se injection	10	10	100.0
Growth promotants	10	2	20.0
Early dehorning	10	4	40.0
Polled	10	1	10.0
Early castration	10	5	50.0
Creep feeding	10	6	60.0

Table 80. Averages and Location of Measures of Herd Performance, Prince Edward County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	10	15	8.3	3.7	13.0	10.0	9.0	6.0	3.0
Cows	10	45	25.8	9.9	41.5	31.0	24.5	17.0	15.5
Bulls	10	5	1.5	1.4	3.5	2.0	1.0	1.0	0
Exposed to Mating	10	45	29.4	10.7	44.0	38.0	31.0	18.0	16
Calves Weaned	10	45	23.9	9.0	38.0	25.0	23.0	17.0	14.5
Length of Calving Season									
Calving Spread (days)	10	207	116.3	52.9	194.5	160.0	106.5	76.0	51.0
Breeding Success / Removals									
Open Rate	10	21	8.1	7.3	18.5	13.0	6.5	0.0	0
Removed Rate	10	28	12.6	9.4	25.0	19.0	13.5	6.0	0
Calving Success									
Calving Rate	10	102	85.6	12.4	101.0	94.0	86.0	72.0	69.0
Liveborn Calving Rate	10	102	85.3	12.9	101.0	94.0	86.0	72.0	67.5
Stillborn Rate	10	4	0.4	1.3	2.0	0.0	0.0	0.0	0
Assisted Calving Rate	10	19	10.4	6.1	17.0	14.0	12.0	9.0	0
Calf Survival and Treatment									
Calf Mortality Rate	10	9	2.7	3.5	8.5	4.0	1.0	0.0	0
Calf Treatment Rate	10	100	25.2	29.5	73.0	29.0	16.0	7.0	2
Productivity									
Weaned Calf Crop Rate	10	100	83.4	14.5	100.0	94.0	84.5	72.0	62
Average 200 Day Adjusted Weaning Weight (lbs)	10	716	537.1	84.5	667.5	571.0	519.0	478.0	440.0
Weight (lbs) Calf Weaned per Cow Exposed	10	619	445.8	100.7	598.0	529.0	428.5	375.0	337.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 81. Herd Management Practices Used by Rainy River District Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	59	16	27.1
Ration formulation	59	11	18.6
Pasture improvement/rotation	59	40	67.8
Pregnancy examinations	59	38	64.4
Crossbreeding	59	44	74.6
Bull breeding soundness evaluation	59	21	35.6
Vaccinations	59	55	93.2
Deworming	59	51	86.4
Lice/warble treatment	59	58	98.3
Fly control	59	42	71.2
Postmortem examination	59	19	32.2
Vitamin E-Se injection	59	39	66.1
Growth promotants	59	6	10.2
Early dehorning	59	46	78.0
Polled	.	.	.
Early castration	59	53	89.8
Creep feeding	59	14	23.7

Table 82. Averages and Location of Measures of Herd Performance, Rainy River District, Ontario Red Meat II Herd Health Option, in 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	58	41	10.9	8.9	20	15	9	5	2
Cows	58	120	43.9	24.7	77	59	36	26	18
Bulls	58	6	2.0	1.3	4	3	2	1	1
Exposed to Mating	59	165	47.3	29.2	85	65	40	26	18
Calves Weaned	59	145	41.6	25.4	77	50	35	22	18
Length of Calving Season									
Calving Spread (days)	58	330	104.3	64.6	223	108	83	65	44
Breeding Success / Removals									
Open Rate	59	29	5.3	5.8	12.0	8.0	4.0	0.0	0
Removed Rate	59	57	12.1	11.5	26.0	18.0	9.0	3.0	0
Calving Success									
Calving Rate	59	109	94.3	8.8	105.0	100.0	96.0	89.0	80
Liveborn Calving Rate	59	106	90.8	9.2	100.0	99.0	92.0	85.0	77
Stillborn Rate	59	18	3.8	4.2	8.0	6.0	3.0	0.0	0
Assisted Calving Rate	59	84	12.1	13.3	24.0	18.0	9.0	3.0	0
Calf Survival and Treatment									
Calf Mortality Rate	57	16	2.1	3.5	9.0	3.0	0.0	0.0	0
Calf Treatment Rate	56	100	17.2	29.4	88.0	18.5	5.5	0.0	0
Productivity									
Weaned Calf Crop Rate	59	106	89.2	9.5	100.0	96.0	90.0	85.0	74
Average 200 Day Adjusted Weaning Weight (lbs)	59	658	560.4	46.9	612	592	563	525	493
Weight (lbs) Calf Weaned per Cow Exposed	59	632	500.3	73.6	606	566	495	445	395

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 83. Herd Management Practices Used by Renfrew County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	153	19	12.4
Ration formulation	153	14	9.2
Pasture improvement/rotation	153	115	75.2
Pregnancy examinations	153	101	66.0
Crossbreeding	153	135	88.2
Bull breeding soundness evaluation	153	23	15.0
Vaccinations	153	122	79.7
Deworming	138	118	77.1
Lice/warble treatment	153	142	92.80
Fly control	153	113	73.9
Postmortem examination	153	58	37.9
Vitamin E-Se injection	153	141	92.2
Growth promotants	153	35	22.9
Early dehorning	153	82	53.6
Polled	153	7	4.6
Early castration	153	123	80.4
Creep feeding	153	63	41.2

Table 84. Averages and Location of Measures of Herd Performance, Renfrew County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	154	55	9.4	9.5	21.0	12.0	997.0	3.0	0
Cows	153	220	48.5	34.6	92.0	60.0	40.0	25.0	17.0
Bulls	153	22	2.2	2.6	4.0	3.0	2.0	1.0	1
Exposed to Mating	154	220	51.8	38.3	102.0	66.0	42.0	25.0	18
Calves Weaned	153	196	45.7	33.9	92.0	58.0	35.0	22.0	17.0
Length of Calving Season									
Calving Spread (days)	152	347	130.1	68.4	233.0	172.0	114.5	75.0	58.0
Breeding Success / Removals									
Open Rate	154	36	3.6	5.4	8.0	5.0	2.0	0.0	0
Removed Rate	154	81	13.0	12.8	27.0	16.0	10.0	5.0	0
Calving Success									
Calving Rate	154	108	95.0	7.9	100.0	100.0	97.0	93.0	87.0
Liveborn Calving Rate	154	106	91.6	8.0	100.0	97.0	94.0	88.0	82.0
Stillborn Rate	154	18	3.5	3.9	9.0	6.0	3.0	0.0	0
Assisted Calving Rate	154	80	8.3	10.5	17.0	11.0	6.0	2.0	0
Calf Survival and Treatment									
Calf Mortality Rate	147	33	3.7	5.3	10.0	5.0	2.0	0.0	0
Calf Treatment Rate	152	100	17.1	24.6	39.0	21.0	9.0	0.0	0
Productivity									
Weaned Calf Crop Rate	153	104	88.6	9.7	100.0	95.0	91.0	85.0	75
Average 200 Day Adjusted Weaning Weight (lbs)	154	686	539.3	63.5	624.0	575.0	540.0	502.0	464.0
Weight (lbs) Calf Weaned per Cow Exposed	153	641	478.3	77.9	576.0	526.0	483.0	430.0	384.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 85. Herd Management Practices Used by Russell County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	7	3	42.9
Ration formulation	7	1	14.3
Pasture improvement/rotation	7	5	71.4
Pregnancy examinations	7	6	85.7
Crossbreeding	7	7	100.0
Bull breeding soundness evaluation	7	1	14.3
Vaccinations	7	6	85.7
Deworming	7	7	100.0
Lice/warble treatment	7	7	100.0
Fly control	7	4	57.1
Postmortem examination	7	2	28.6
Vitamin E-Se injection	7	7	100.0
Growth promotants	7	1	14.3
Early dehorning	7	5	71.4
Polled	7	1	14.3
Early castration	7	6	85.7
Creep feeding	7	5	71.4

Table 86. Averages and Location of Measures of Herd Performance, Russell County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	7	15	7.9	4.2	15.0	11.0	8.0	5.0	2.0
Cows	7	46	23.1	14.4	46.0	32.0	24.0	16.0	0
Bulls	7	4	1.6	1.4	4.0	3.0	1.0	1.0	0
Exposed to Mating	7	52	31.4	12.6	52.0	40.0	28.0	18.0	17
Calves Weaned	7	45	29.4	10.9	45.0	39.0	28.0	17.0	16.0
Length of Calving Season									
Calving Spread (days)	7	246	116.7	67.9	246.0	169.0	90.0	63.0	61.0
Breeding Success / Removals									
Open Rate	7	10	3.9	4.3	10.0	8.0	2.0	0.0	0
Removed Rate	7	56	16.7	18.2	56.0	22.0	8.0	7.0	6.0
Calving Success									
Calving Rate	7	106	97.4	7.2	106.0	106.0	98.0	92.0	87.0
Liveborn Calving Rate	7	100	93.9	5.8	100.0	100.0	94.0	87.0	86.0
Stillborn Rate	7	12	3.6	4.8	12.0	7.0	0.0	0.0	0
Assisted Calving Rate	7	56	17.9	18.9	56.0	29.0	9.0	7.0	2.0
Calf Survival and Treatment									
Calf Mortality Rate	6	6	1.7	2.7	6.0	4.0	0.0	0.0	0
Calf Treatment Rate	7	100	18.9	36.3	100.0	17.0	6.0	0.0	0
Productivity									
Weaned Calf Crop Rate	7	100	94.4	4.2	100.0	98.0	94.0	92.0	87
Average 200 Day Adjusted Weaning Weight (lbs)	7	740	594.7	70.4	740.0	609.0	583.0	544.0	526.0
Weight (lbs) Calf Weaned per Cow Exposed	7	699	561.4	67.2	699.0	594.0	544.0	518.0	507.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 87. Herd Management Practices Used by Simcoe County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	52	19	36.5
Ration formulation	52	16	30.8
Pasture improvement/rotation	52	35	67.3
Pregnancy examinations	52	38	73.1
Crossbreeding	52	36	69.2
Bull breeding soundness evaluation	52	11	21.2
Vaccinations	52	39	75.0
Deworming	52	43	82.7
Lice/warble treatment	52	49	94.2
Fly control	52	37	71.2
Postmortem examination	52	17	32.7
Vitamin E-Se injection	52	49	94.2
Growth promotants	52	17	32.7
Early dehorning	52	29	55.8
Polled	52	2	3.8
Early castration	52	36	69.2
Creep feeding	52	33	63.5

Table 88. Averages and Location of Measures of Herd Performance, Simcoe County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	52	31	6.5	5.8	13.0	10.0	5.0	2.5	0
Cows	52	126	39.9	26.2	64.0	53.0	33.5	20.0	14.0
Bulls	51	7	1.6	1.4	3.0	2.0	1.0	1.0	1
Exposed to Mating	52	129	40.2	26.9	71.0	54.5	36.0	21.0	13
Calves Weaned	52	109	36.2	23.7	68.0	45.5	30.5	20.0	12.0
Length of Calving Season									
Calving Spread (days)	52	364	120.0	80.9	254.0	136.5	86.5	71.0	56.0
Breeding Success / Removals									
Open Rate	52	11	2.6	3.0	7.0	4.0	2.0	0.0	0
Removed Rate	52	41	10.9	10.2	23.0	14.5	7.5	4.0	0
Calving Success									
Calving Rate	52	110	98.5	5.1	105.0	100.0	100.0	95.0	93.0
Liveborn Calving Rate	52	109	94.7	6.5	102.0	100.0	95.0	91.0	87.0
Stillborn Rate	52	20	3.9	4.5	9.0	6.5	3.0	0.0	0
Assisted Calving Rate	52	50	7.2	8.7	15.0	10.0	5.0	1.5	0
Calf Survival and Treatment									
Calf Mortality Rate	51	35	3.6	7.3	9.0	4.0	0.0	0.0	0
Calf Treatment Rate	51	100	17.7	25.2	52.0	25.0	6.0	0.0	0
Productivity									
Weaned Calf Crop Rate	52	109	91.5	9.3	100.0	99.0	93.0	86.5	81
Average 200 Day Adjusted Weaning Weight (lbs)	52	751	553.8	65.9	623.0	584.5	554.5	504.0	483.0
Weight (lbs) Calf Weaned per Cow Exposed	52	751	506.5	79.9	601.0	560.5	499.5	461.5	428.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile,
PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 89. Herd Management Practices Used by Stormont County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	8	1	12.5
Ration formulation	8	2	25.0
Pasture improvement/rotation	8	5	62.5
Pregnancy examinations	8	4	50.0
Crossbreeding	8	6	75.0
Bull breeding soundness evaluation	8	2	25.0
Vaccinations	8	3	37.5
Deworming	8	8	100.0
Lice/warble treatment	8	8	100.0
Fly control	8	5	62.5
Postmortem examination	8	6	75.0
Vitamin E-Se injection	8	7	87.5
Growth promotants	8	2	25.0
Early dehorning	8	4	50.0
Polled	8	0	0.0
Early castration	8	6	75.0
Creep feeding	8	7	87.5

Table 90. Averages and Location of Measures of Herd Performance, Stormont County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	8	22	7.5	8.1	22.0	13.0	5.5	0.5	0
Cows	8	55	29.4	13.9	55.0	37.0	28.0	20.0	10.0
Bulls	8	3	1.1	0.9	3.0	1.5	1.0	0.5	0
Exposed to Mating	8	43	28.0	11.3	43.0	37.5	27.5	20.5	10
Calves Weaned	8	38	24.8	9.1	38.0	32.0	23.0	20.0	10.0
Length of Calving Season									
Calving Spread (days)	8	254	119.1	71.4	254.0	149.5	124.5	60.0	31.0
Breeding Success / Removals									
Open Rate	8	12	4.0	4.4	12.0	7.0	3.0	0.0	0
Removed Rate	8	19	8.8	7.0	19.0	14.5	7.5	3.5	0
Calving Success									
Calving Rate	8	100	96.8	4.4	100.0	100.0	99.0	94.0	88.0
Liveborn Calving Rate	8	100	92.9	5.6	100.0	98.0	93.0	88.0	85.0
Stillborn Rate	8	12	4.0	4.6	12.0	7.0	3.0	0.0	0
Assisted Calving Rate	8	39	9.8	12.9	39.0	13.0	5.5	1.0	0
Calf Survival and Treatment									
Calf Mortality Rate	7	18	3.7	6.9	18.0	8.0	0.0	0.0	0
Calf Treatment Rate	7	92	22.1	32.5	92.0	27.0	10.0	0.0	0
Productivity									
Weaned Calf Crop Rate	8	100	90.5	8.6	100.0	98.0	92.5	83.0	77
Average 200 Day Adjusted Weaning Weight (lbs)	8	754	526.3	152.3	754.0	618.5	549.5	410.0	300.0
Weight (lbs) Calf Weaned per Cow Exposed	8	754	480.3	162.4	754.0	560.5	507.5	350.5	251.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 91. Herd Management Practices Used by Sudbury District Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	19	4	21.1
Ration formulation	19	2	10.5
Pasture improvement/rotation	19	16	84.2
Pregnancy examinations	19	15	78.9
Crossbreeding	19	12	63.2
Bull breeding soundness evaluation	19	4	21.1
Vaccinations	19	10	52.6
Deworming	19	15	78.9
Lice/warble treatment	19	19	100.0
Fly control	19	7	36.8
Postmortem examination	19	3	15.8
Vitamin E-Se injection	19	18	94.7
Growth promotants	19	0	0.0
Early dehorning	19	8	42.1
Polled	19	4	21.1
Early castration	19	11	57.9
Creep feeding	19	8	42.1

Table 92. Averages and Location of Measures of Herd Performance, Sudbury District, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	18	13	5.8	4.3	12.0	10.0	5.0	3.0	0
Cows	18	71	28.4	16.0	53.0	35.0	29.5	15.0	11.0
Bulls	18	2	1.1	0.4	2.0	1.0	1.0	1.0	1
Exposed to Mating	19	73	28.8	14.5	40.0	37.0	26.0	19.0	12
Calves Weaned	19	60	25.8	12.1	38.0	34.0	23.0	17.0	12.0
Length of Calving Season									
Calving Spread (days)	18	295	107.6	70.7	219.0	136.0	90.5	68.0	24.0
Breeding Success / Removals									
Open Rate	19	16	1.7	4.1	9.0	0.0	0.0	0.0	0
Removed Rate	19	35	10.1	8.5	21.0	14.0	8.0	5.0	0
Calving Success									
Calving Rate	19	100	95.6	8.6	100.0	100.0	100.0	94.0	84.0
Liveborn Calving Rate	19	100	92.9	10.8	100.0	100.0	95.0	91.0	78.0
Stillborn Rate	19	15	3.3	4.3	12.0	5.0	3.0	0.0	0
Assisted Calving Rate	19	38	8.2	12.0	37.0	12.0	3.0	0.0	0
Calf Survival and Treatment									
Calf Mortality Rate	17	14	3.0	5.0	13.0	4.0	0.0	0.0	0
Calf Treatment Rate	19	95	10.5	22.0	31.0	7.0	4.0	0.0	0
Productivity									
Weaned Calf Crop Rate	19	100	91.4	9.1	100.0	100.0	95.0	86.0	79
Average 200 Day Adjusted Weaning Weight (lbs)	19	679	577.8	67.2	658.0	639.0	580.0	544.0	457.0
Weight (lbs) Calf Weaned per Cow Exposed	19	643	526.5	74.9	642.0	573.0	530.0	466.0	409.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 93. Herd Management Practices Used by Thunder Bay District Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	2	2	100.0
Ration formulation	2	2	100.0
Pasture improvement/rotation	2	2	100.0
Pregnancy examinations	2	2	100.0
Crossbreeding	2	0	0.0
Bull breeding soundness evaluation	2	0	0.0
Vaccinations	2	2	100.0
Deworming	2	2	100.0
Lice/warble treatment	2	2	100.0
Fly control	2	2	100.0
Postmortem examination	2	1	50.0
Vitamin E-Se injection	2	1	50.0
Growth promotants	2	0	0.0
Early dehorning	2	0	0.0
Polled	2	1	50.0
Early castration	2	0	0.0
Creep feeding	2	1	50.0

Table 94. Averages and Location of Measures of Herd Performance, Thunder Bay District, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	2	21	12.0	12.7	21.0	21.0	12.0	3.0	3.0
Cows	2	37	28.5	12.0	37.0	37.0	28.5	20.0	20.0
Bulls	2	14	7.0	9.9	14.0	14.0	7.0	0.0	0
Exposed to Mating	2	35	29.5	7.8	35.0	35.0	29.5	24.0	24
Calves Weaned	2	32	28.0	5.7	32.0	32.0	28.0	24.0	24.0
Length of Calving Season									
Calving Spread (days)	2	106	79.0	38.2	106.0	106.0	79.0	52.0	52.0
Breeding Success / Removals									
Open Rate	2	9	6.5	3.5	9.0	9.0	6.5	4.0	4
Removed Rate	2	63	35.5	38.9	63.0	63.0	35.5	8.0	8.0
Calving Success									
Calving Rate	2	100	95.5	6.4	100.0	100.0	95.5	91.0	91.0
Liveborn Calving Rate	2	100	95.5	6.4	100.0	100.0	95.5	91.0	91.0
Stillborn Rate	2	0	0.0	0.0	0.0	0.0	0.0	0.0	0
Assisted Calving Rate	2	5	2.5	3.5	5.0	5.0	2.5	0.0	0
Calf Survival and Treatment									
Calf Mortality Rate	2	0	0.0	0.0	0.0	0.0	0.0	0.0	0
Calf Treatment Rate	2	44	34.5	13.4	44.0	44.0	34.5	25.0	25
Productivity									
Weaned Calf Crop Rate	2	100	95.5	6.4	100.0	100.0	95.5	91.0	91
Average 200 Day Adjusted Weaning Weight (lbs)	2	737	606.0	185.3	737.0	737.0	606.0	475.0	475.0
Weight (lbs) Calf Weaned per Cow Exposed	2	737	585.5	214.3	737.0	737.0	585.5	434.0	434.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 95. Herd Management Practices Used by Timiskaming County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	24	11	45.8
Ration formulation	24	14	58.3
Pasture improvement/rotation	24	21	87.5
Pregnancy examinations	24	18	75.0
Crossbreeding	24	19	79.2
Bull breeding soundness evaluation	24	8	33.3
Vaccinations	24	23	95.8
Deworming	24	19	79.2
Lice/warble treatment	24	23	95.8
Fly control	24	16	66.7
Postmortem examination	24	14	58.3
Vitamin E-Se injection	24	22	91.7
Growth promotants	24	7	29.2
Early dehorning	24	16	66.7
Polled	24	1	4.2
Early castration	24	15	62.5
Creep feeding	24	13	54.2

Table 96. Averages and Location of Measures of Herd Performance, Timiskaming County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	24	34	9.3	8.0	20.0	13.0	8.5	4.0	0.0
Cows	24	102	42.2	23.2	75.0	52.5	39.5	29.0	17.0
Bulls	24	101	7.3	21.6	3.0	2.0	2.0	1.0	0
Exposed to Mating	23	114	48.0	26.4	88.0	61.0	39.0	33.0	20
Calves Weaned	24	104	41.2	19.8	65.0	48.5	37.5	29.5	24.0
Length of Calving Season									
Calving Spread (days)	24	211	115.4	39.5	181.0	131.5	110.0	87.5	75.0
Breeding Success / Removals									
Open Rate	23	38	4.1	8.5	10.0	4.0	0.0	0.0	0
Removed Rate	23	76	13.8	15.6	23.0	17.0	11.0	5.0	0
Calving Success									
Calving Rate	23	111	95.2	9.5	103.0	100.0	100.0	90.0	83.0
Liveborn Calving Rate	23	109	91.4	10.6	100.0	98.0	95.0	85.0	81.0
Stillborn Rate	23	14	4.3	4.3	12.0	5.0	3.0	1.0	0
Assisted Calving Rate	23	45	10.4	11.3	26.0	15.0	10.0	0.0	0
Calf Survival and Treatment									
Calf Mortality Rate	20	40	6.3	9.5	16.5	8.5	3.5	0.0	0
Calf Treatment Rate	23	100	21.7	23.9	46.0	26.0	15.0	5.0	0
Productivity									
Weaned Calf Crop Rate	23	125	88.1	15.4	106.0	97.0	90.0	82.0	67
Average 200 Day Adjusted Weaning Weight (lbs)	24	730	571.5	75.0	650.0	623.0	570.5	527.5	470.0
Weight (lbs) Calf Weaned per Cow Exposed	23	755	509.5	127.4	664.0	586.0	528.0	430.0	314.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 97. Herd Management Practices Used by Victoria County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	98	27	27.6
Ration formulation	98	27	27.6
Pasture improvement/rotation	98	68	69.4
Pregnancy examinations	98	84	85.7
Crossbreeding	98	65	66.3
Bull breeding soundness evaluation	98	24	24.5
Vaccinations	98	85	86.7
Deworming	98	92	93.9
Lice/warble treatment	98	94	95.9
Fly control	98	72	73.5
Postmortem examination	98	46	46.9
Vitamin E-Se injection	98	90	91.8
Growth promotants	98	29	29.6
Early dehorning	98	47	48.0
Polled	98	3	3.1
Early castration	98	67	68.4
Creep feeding	98	49	50.0

Table 98. Averages and Location of Measures of Herd Performance, Victoria County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	98	29	5.7	6.3	15.0	8.0	4.0	1.0	0
Cows	98	142	35.3	23.3	63.0	45.0	30.0	18.0	13.0
Bulls	98	19	1.7	2.1	3.0	2.0	1.0	1.0	0
Exposed to Mating	98	151	36.6	24.1	66.0	46.0	30.0	20.0	14
Calves Weaned	97	133	32.8	21.6	59.0	42.0	26.0	17.0	14.0
Length of Calving Season									
Calving Spread (days)	97	345	128.4	78.1	261.0	164.0	105.0	71.0	48.0
Breeding Success / Removals									
Open Rate	98	21	3.3	4.5	9.0	5.0	2.0	0.0	0
Removed Rate	97	57	11.5	9.9	21.0	17.0	11.0	5.0	0
Calving Success									
Calving Rate	98	108	96.4	7.1	103.0	100.0	100.0	94.0	87.0
Liveborn Calving Rate	98	105	93.5	7.9	100.0	100.0	95.0	89.0	81.0
Stillborn Rate	98	13	3.1	3.5	9.0	5.0	2.0	0.0	0
Assisted Calving Rate	98	50	9.6	8.3	21.0	12.0	8.0	4.0	0
Calf Survival and Treatment									
Calf Mortality Rate	93	24	3.0	3.9	7.0	6.0	2.0	0.0	0
Calf Treatment Rate	92	80	13.9	18.1	41.0	19.5	7.5	0.0	0
Productivity									
Weaned Calf Crop Rate	97	105	91.0	8.6	100.0	97.0	93.0	87.0	78
Average 200 Day Adjusted Weaning Weight (lbs)	98	751	563.4	74.2	672.0	606.0	563.5	512.0	469.0
Weight (lbs) Calf Weaned per Cow Exposed	97	690	512.5	88.9	627.0	575.0	522.0	443.0	395.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 99. Herd Management Practices Used by Waterloo County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	6	3	50.0
Ration formulation	6	5	83.3
Pasture improvement/rotation	6	5	83.3
Pregnancy examinations	6	6	100.0
Crossbreeding	6	4	66.7
Bull breeding soundness evaluation	6	4	66.7
Vaccinations	6	4	66.7
Deworming	6	4	66.7
Lice/warble treatment	6	5	83.3
Fly control	6	4	66.7
Postmortem examination	6	4	66.7
Vitamin E-Se injection	6	6	100.0
Growth promotants	6	1	16.7
Early dehorning	6	3	50.0
Polled	6	0	0.0
Early castration	6	2	33.3
Creep feeding	6	4	66.7

Table 100. Averages and Location of Measures of Herd Performance, Waterloo County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	6	23	9.5	7.2	23.0	12.0	6.5	5.0	4.0
Cows	6	101	42.0	30.4	101.0	43.0	32.5	29.0	14.0
Bulls	6	6	2.3	2.3	6.0	4.0	1.5	1.0	0
Exposed to Mating	6	114	42.7	36.2	114.0	43.0	30.0	25.0	14
Calves Weaned	6	95	36.5	29.9	95.0	37.0	27.5	20.0	12.0
Length of Calving Season									
Calving Spread (days)	6	305	157.2	98.4	305.0	260.0	100.5	90.0	87.0
Breeding Success / Removals									
Open Rate	6	24	11.2	9.9	24.0	22.0	8.5	4.0	0
Removed Rate	6	43	16.0	13.5	43.0	15.0	11.5	8.0	7.0
Calving Success									
Calving Rate	6	104	94.2	10.1	104.0	103.0	95.5	89.0	78.0
Liveborn Calving Rate	6	100	89.2	9.8	100.0	100.0	87.5	86.0	74.0
Stillborn Rate	6	15	5.3	4.8	15.0	5.0	3.5	3.0	2
Assisted Calving Rate	6	24	13.7	8.3	24.0	23.0	11.5	9.0	3.0
Calf Survival and Treatment									
Calf Mortality Rate	6	8	3.0	2.9	8.0	4.0	3.0	0.0	0
Calf Treatment Rate	6	100	32.0	40.7	100.0	64.0	12.0	4.0	0
Productivity									
Weaned Calf Crop Rate	6	97	86.3	7.9	97.0	92.0	86.0	83.0	74
Average 200 Day Adjusted Weaning Weight (lbs)	6	575	515.3	83.6	575.0	559.0	543.5	522.0	349.0
Weight (lbs) Calf Weaned per Cow Exposed	6	517	444.8	83.2	517.0	514.0	464.0	410.0	300.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 101. Herd Management Practices Used by Wellington County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	41	13	31.7
Ration formulation	41	14	34.1
Pasture improvement/rotation	41	34	82.9
Pregnancy examinations	41	35	85.4
Crossbreeding	41	26	63.4
Bull breeding soundness evaluation	41	12	29.3
Vaccinations	41	37	90.2
Deworming	41	33	80.5
Lice/warble treatment	41	39	95.1
Fly control	41	28	68.3
Postmortem examination	41	22	53.7
Vitamin E-Se injection	41	38	92.7
Growth promotants	41	8	19.5
Early dehorning	41	20	48.8
Polled	41	1	2.4
Early castration	41	24	58.5
Creep feeding	41	36	87.8

Table 102. Averages and Location of Measures of Herd Performance, Wellington County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	41	23	5.1	4.9	10.0	8.0	4.0	1.0	0
Cows	41	262	39.9	40.4	59.0	41.0	32.0	22.0	15.0
Bulls	41	13	1.7	2.7	3.0	1.0	1.0	1.0	0
Exposed to Mating	41	262	42.8	40.2	55.0	46.0	34.0	24.0	18
Calves Weaned	41	231	37.1	35.2	47.0	39.0	31.0	21.0	15.0
Length of Calving Season									
Calving Spread (days)	41	363	146.6	87.7	273.0	209.0	116.0	82.0	70.0
Breeding Success / Removals									
Open Rate	41	33	4.5	5.8	9.0	6.0	3.0	0.0	0
Removed Rate	41	44	11.7	10.2	25.0	15.0	10.0	5.0	2.0
Calving Success									
Calving Rate	41	122	95.8	10.2	104.0	100.0	97.0	92.0	89.0
Liveborn Calving Rate	41	104	90.8	9.5	100.0	97.0	92.0	89.0	78.0
Stillborn Rate	41	28	5.3	5.4	12.0	7.0	4.0	3.0	0
Assisted Calving Rate	41	41	7.4	7.9	15.0	12.0	5.0	3.0	0
Calf Survival and Treatment									
Calf Mortality Rate	41	37	4.4	7.7	12.0	6.0	0.0	0.0	0
Calf Treatment Rate	41	100	17.1	25.5	30.0	16.0	9.0	0.0	0
Productivity									
Weaned Calf Crop Rate	41	104	86.9	11.5	98.0	94.0	89.0	85.0	71
Average 200 Day Adjusted Weaning Weight (lbs)	41	717	540.9	69.4	632.0	577.0	545.0	492.0	461.0
Weight (lbs) Calf Weaned per Cow Exposed	41	687	470.4	91.5	570.0	545.0	464.0	415.0	351.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Table 103. Herd Management Practices Used by York County Producers in the Ontario Red Meat II Herd Health Option, in 1990

Management Practice	Number Herds	Number Yes	Percent Yes
Feed analysis	4	1	25.0
Ration formulation	4	0	0.0
Pasture improvement/rotation	4	3	75.0
Pregnancy examinations	4	4	100.0
Crossbreeding	4	3	75.0
Bull breeding soundness evaluation	4	1	25.0
Vaccinations	4	3	75.0
Deworming	4	4	100.0
Lice/warble treatment	4	4	100.0
Fly control	4	2	50.0
Postmortem examination	4	2	50.0
Vitamin E-Se injection	4	4	100.0
Growth promotants	4	1	25.0
Early dehorning	4	4	100.0
Polled	4	0	0.0
Early castration	4	2	50.0
Creep feeding	4	2	50.0

Table 104. Averages and Location of Measures of Herd Performance, York County, Ontario Red Meat II Herd Health Option, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
Number									
Heifers	4	14	7.5	5.1	14.0	11.5	6.5	3.5	3
Cows	4	91	41.8	33.6	91.0	62.5	29.5	21.0	17
Bulls	4	5	2.3	2.1	5.0	3.5	2.0	1.0	0
Exposed to Mating	4	87	43.5	31.3	87.0	66.0	35.0	21.0	17
Calves Weaned	4	81	38.3	29.1	81.0	56.0	27.5	20.5	17
Length of Calving Season									
Calving Spread (days)	4	262	158.5	86.6	262.0	230.0	143.0	87.0	86
Breeding Success / Removals									
Open Rate	4	7	3.0	3.2	7.0	5.5	2.5	0.5	0
Removed Rate	4	20	11.5	8.4	20.0	17.0	13.0	6.0	0
Calving Success									
Calving Rate	4	100	96.5	4.0	100.0	99.5	97.5	93.5	91.0
Liveborn Calving Rate	4	100	92.0	9.7	100.0	98.0	95.0	86.0	78.0
Stillborn Rate	4	16	5.3	7.5	16.0	10.5	2.5	0.0	0
Assisted Calving Rate	4	24	15.3	8.5	24.0	22.5	14.5	8.0	8.0
Calf Survival and Treatment									
Calf Mortality Rate	4	11	3.0	5.4	11.0	6.0	0.5	0.0	0
Calf Treatment Rate	4	29	12.0	12.2	29.0	19.5	9.5	4.5	0
Productivity									
Weaned Calf Crop Rate	4	100	89.5	13.9	100.0	98.0	94.5	81.0	69
Average 200 Day Adjusted Weaning Weight (lbs)	4	689	583.3	93.4	689.0	655.5	586.0	511.0	472.0
Weight (lbs) Calf Weaned per Cow Exposed	4	689	526.0	142.3	689.0	643.0	518.0	409.0	379.0

NUMBER = number of herds (groups)
MAX = maximum (largest) observation
AVERAGE = mean
STD = standard deviation
PCTL90 = 90th percentile, PCTL75 = 75th percentile, MEDIAN = 50th percentile, PCTL25 = 25th percentile, PCTL10 = 10th percentile
all rates are expressed as percentages

Section 4

Beef Cow-Calf Herds

Cattle Inventories
and
Herd Performance
Tabulated by
Individual County or District

Table 1. Average and Location Measures for the Number of Replacement Heifers by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	20	5.6	6.1	16.0	10.0	3.0	0.0	0.0
BRANT	7	62	15.1	20.9	62.0	13.0	8.0	5.0	3.0
BRUCE	191	220	8.8	17.8	20.0	10.0	5.0	1.0	0.0
COCHRANE	18	29	7.5	8.1	17.0	12.0	6.0	0.0	0.0
DUFFERIN	35	19	6.7	4.9	12.0	10.0	7.0	2.0	0.0
DUNDAS	7	20	9.0	7.7	20.0	18.0	7.0	2.0	0.0
DURHAM.E	11	14	7.6	3.9	14.0	11.0	6.0	5.0	5.0
DURHAM.W	27	56	9.9	11.0	20.0	11.0	8.0	4.0	0.0
ELGIN	30	43	9.9	10.2	19.0	14.0	7.0	4.0	1.5
ESSEX	8	4	1.3	1.6	4.0	2.5	0.5	0.0	0.0
FRONTENAC	28	45	7.6	9.1	17.0	10.0	5.0	2.0	0.0
GLENGARRY	21	15	6.1	4.3	12.0	9.0	5.0	3.0	2.0
GRENVILLE	12	28	5.5	7.7	8.0	7.0	4.0	0.5	0.0
GREY	154	43	7.6	7.9	15.0	10.0	5.0	2.0	0.0
HALIBURTON	1	4	4.0	.	4.0	4.0	4.0	4.0	4.0
HALTON	5	14	6.8	4.3	14.0	7.0	6.0	4.0	3.0
HASTINGS	42	31	7.0	7.3	15.0	10.0	5.0	1.0	0.0
HLDMND.NRFLK	17	22	7.4	7.9	20.0	9.0	4.0	2.0	0.0
HMLTN.WNTWRTH	8	39	10.9	12.5	39.0	13.0	9.0	2.0	0.0
HURON	77	74	8.5	12.3	20.0	10.0	5.0	1.0	0.0
KENORA	4	17	8.8	6.2	17.0	13.5	7.5	4.0	3.0
KENT	12	32	12.5	9.9	30.0	16.0	9.0	7.5	4.0
LAMBTON	33	30	5.2	6.4	10.0	7.0	4.0	0.0	0.0
LANARK	70	38	7.0	7.5	15.5	10.0	5.0	2.0	0.0
LEEDS	12	26	7.9	7.9	15.0	13.5	5.5	1.0	0.0
LNNX.ADD	29	19	8.0	5.5	15.0	13.0	7.0	3.0	1.0
MANITOULIN	44	68	9.3	11.4	17.0	12.0	6.5	3.0	0.0
MIDDLESEX	29	38	10.9	10.3	31.0	14.0	8.0	4.0	0.0
MUSKOKA	2	4	2.5	2.1	4.0	4.0	2.5	1.0	1.0
NIAGARA	3	8	4.7	3.1	8.0	8.0	4.0	2.0	2.0
NIPISSING	8	22	7.4	7.9	22.0	12.0	4.0	2.0	1.0
NORTHUMBERLAND	31	21	5.8	4.4	12.0	8.0	4.0	3.0	2.0
OTTAWA.CARLTON	45	35	8.4	8.1	21.0	12.0	6.0	2.0	1.0
OXFORD	16	29	6.3	7.2	14.0	7.0	5.0	1.0	0.0
PARRYSOUND	4	6	4.5	1.7	6.0	5.5	5.0	3.5	2.0
PEEL	10	25	9.3	8.2	23.0	12.0	7.0	3.0	1.5
PERTH	35	32	9.7	8.5	23.0	11.0	7.0	4.0	2.0
PETERBOROUGH	77	33	8.6	7.2	20.0	12.0	6.0	4.0	2.0
PRESCOTT	12	102	19.4	30.1	54.0	19.5	8.0	3.5	0.0
PRINCE.EDWARD	10	15	8.3	3.7	13.0	10.0	9.0	6.0	3.0
RAINY.RIVER	58	41	10.9	8.9	20.0	15.0	9.0	5.0	2.0
RENFREW	154	55	9.4	9.5	21.0	12.0	7.0	3.0	0.0
RUSSELL	7	15	7.9	4.2	15.0	11.0	8.0	5.0	2.0
SIMCOE	52	31	6.5	5.8	13.0	10.0	5.0	2.5	0.0
STORMONT	8	22	7.5	8.1	22.0	13.0	5.5	0.5	0.0
SUDBURY	18	13	5.8	4.3	12.0	10.0	5.0	3.0	0.0
THUNDER.BAY	2	21	12.0	12.7	21.0	21.0	12.0	3.0	3.0
TIMISKAMING	24	34	9.3	8.0	20.0	13.0	8.5	4.0	0.0
VICTORIA	98	29	5.7	6.3	15.0	8.0	4.0	1.0	0.0
WATERLOO	6	23	9.5	7.2	23.0	12.0	6.5	5.0	4.0
WELLINGTON	41	23	5.1	4.9	10.0	8.0	4.0	1.0	0.0
YORK	4	14	7.5	5.1	14.0	11.5	6.5	3.5	3.0

Table 2. Average and Location Measures for the Number of Cows, by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	107	44.9	24.5	90.0	61.0	40.0	25.0	19.0
BRANT	7	134	52.4	41.2	134.0	75.0	45.0	21.0	20.0
BRUCE	191	426	51.2	43.3	97.0	61.0	40.0	27.0	20.0
COCHRANE	18	64	35.4	17.3	60.0	51.0	31.5	21.0	14.0
DUFFERIN	35	90	37.2	22.7	77.0	52.0	29.0	20.0	15.0
DUNDAS	7	55	23.7	15.6	55.0	29.0	16.0	13.0	12.0
DURHAM.E	11	160	55.7	46.4	131.0	56.0	41.0	29.0	19.0
DURHAM.W	27	234	54.1	55.1	151.0	60.0	33.0	24.0	14.0
ELGIN	30	128	37.1	28.7	81.0	49.0	27.0	15.0	13.0
ESSEX	8	22	15.5	3.9	22.0	18.0	15.0	12.5	11.0
FRONTENAC	28	210	38.6	38.9	62.0	47.5	27.5	15.0	13.0
GLENGARRY	21	40	19.8	8.0	30.0	25.0	17.0	14.0	11.0
GRENVILLE	12	89	23.8	21.3	31.0	23.0	17.0	13.0	12.0
GREY	154	231	44.7	33.7	76.0	54.0	36.0	24.0	16.0
HALIBURTON	1	53	53.0	.	53.0	53.0	53.0	53.0	53.0
HALTON	5	66	35.6	17.0	66.0	30.0	28.0	27.0	27.0
HASTINGS	42	89	35.4	21.3	68.0	50.0	29.5	17.0	13.0
HLDMND.NRFLK	17	83	34.9	18.7	63.0	43.0	29.0	23.0	17.0
HMLTN.WNTWRTH	8	61	26.8	14.8	61.0	27.5	24.5	17.5	14.0
HURON	77	183	45.9	35.6	87.0	51.0	35.0	23.0	16.0
KENORA	4	115	50.5	43.8	115.0	77.5	33.5	23.5	20.0
KENT	12	98	39.3	26.7	73.0	49.5	39.5	16.5	12.0
LAMBTON	33	163	50.9	41.9	129.0	61.0	40.0	25.0	13.0
LANARK	70	140	35.1	24.6	63.5	42.0	30.0	17.0	14.0
LEEDS	12	60	29.0	16.6	51.0	43.5	24.5	13.5	13.0
LNNX.ADD	29	93	37.6	19.5	68.0	50.0	39.0	23.0	14.0
MANITOULIN	44	190	57.9	37.3	100.0	77.5	52.5	26.5	22.0
MIDDLESEX	29	193	52.4	41.6	111.0	65.0	42.0	23.0	18.0
MUSKOKA	2	60	40.5	27.6	60.0	60.0	40.5	21.0	21.0
NIAGARA	3	55	30.0	21.9	55.0	55.0	21.0	14.0	14.0
NIPISSING	8	36	19.4	9.7	36.0	25.0	20.5	10.0	8.0
NORTHUMBERLAND	31	95	30.1	20.9	57.0	38.0	23.0	16.0	13.0
OTTAWA.CARLTON	45	138	32.5	25.0	59.0	39.0	24.0	18.0	13.0
OXFORD	16	116	48.8	32.6	112.0	63.0	42.0	23.5	17.0
PARRYSOUND	4	42	23.8	12.5	42.0	31.5	19.5	16.0	14.0
PEEL	10	83	41.5	23.3	81.0	50.0	35.5	25.0	19.0
PERTH	35	130	39.3	26.1	72.0	58.0	30.0	20.0	12.0
PETERBOROUGH	77	130	40.2	28.0	88.0	50.0	32.0	21.0	13.0
PRESCOTT	12	338	65.9	90.4	105.0	70.0	35.5	18.0	13.0
PRINCE.EDWARD	10	45	25.8	9.9	41.5	31.0	24.5	17.0	15.5
RAINY.RIVER	58	120	43.9	24.7	77.0	59.0	36.0	26.0	18.0
RENFREW	153	220	48.5	34.6	92.0	60.0	40.0	25.0	17.0
RUSSELL	7	46	23.1	14.4	46.0	32.0	24.0	16.0	0.0
SIMCOE	52	126	39.9	26.2	64.0	53.0	33.5	20.0	14.0
STORMONT	8	55	29.4	13.9	55.0	37.0	28.0	20.0	10.0
SUDBURY	18	71	28.4	16.0	53.0	35.0	29.5	15.0	11.0
THUNDER.BAY	2	37	28.5	12.0	37.0	37.0	28.5	20.0	20.0
TIMISKAMING	24	102	42.2	23.2	75.0	52.5	39.5	29.0	17.0
VICTORIA	98	142	35.3	23.3	63.0	45.0	30.0	18.0	13.0
WATERLOO	6	101	42.0	30.4	101.0	43.0	32.5	29.0	14.0
WELLINGTON	41	262	39.9	40.4	59.0	41.0	32.0	22.0	15.0
YORK	4	91	41.8	33.6	91.0	62.5	29.5	21.0	17.0

Table 3. Average and Location Measures for the Number of Bulls, by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	3	1.5	0.9	3.0	2.0	1.0	1.0	0
BRANT	7	7	2.3	2.1	7.0	2.0	2.0	1.0	1
BRUCE	191	20	2.2	2.2	4.0	2.0	1.0	1.0	1
COCHRANE	18	2	1.5	0.6	2.0	2.0	2.0	1.0	1
DUFFERIN	35	4	1.5	0.9	3.0	2.0	1.0	1.0	1
DUNDAS	7	12	3.0	4.1	12.0	3.0	2.0	1.0	0
DURHAM.E	11	5	2.0	1.4	3.0	3.0	2.0	1.0	1
DURHAM.W	27	15	2.3	3.2	6.0	2.0	1.0	1.0	0
ELGIN	30	6	1.8	1.5	4.0	3.0	1.0	1.0	0
ESSEX	8	1	0.6	0.5	1.0	1.0	1.0	0.5	0
FRONTENAC	28	32	2.8	6.2	8.0	2.0	1.0	1.0	0
GLENGARRY	21	6	1.8	1.7	4.0	3.0	1.0	1.0	0
GRENVILLE	12	3	1.0	1.1	3.0	1.5	1.0	0.0	0
GREY	154	10	1.8	1.7	3.0	2.0	1.0	1.0	0
HALIBURTON	1	3	3.0	.	3.0	3.0	3.0	3.0	3
HALTON	5	2	1.4	0.5	2.0	2.0	1.0	1.0	1
HASTINGS	42	10	1.6	1.9	2.0	2.0	1.0	1.0	0
HLDMND.NRFLK	17	19	3.0	4.5	8.0	2.0	2.0	1.0	1
HMLTN.WNTWRTH	8	7	2.8	2.4	7.0	4.0	2.0	1.0	1
HURON	77	10	1.8	1.6	3.0	2.0	1.0	1.0	0
KENORA	4	4	2.5	1.0	4.0	3.0	2.0	2.0	2
KENT	12	7	2.4	2.2	6.0	3.0	2.0	1.0	0
LAMBTON	33	6	1.8	1.4	4.0	2.0	1.0	1.0	1
LANARK	70	10	1.3	1.4	2.5	2.0	1.0	1.0	0
LEEDS	12	3	1.6	0.9	3.0	2.0	1.5	1.0	1
LNNX.ADD	29	9	2.0	1.8	3.0	2.0	2.0	1.0	1
MANITOULIN	44	8	1.9	1.5	3.0	3.0	1.0	1.0	1
MIDDLESEX	29	7	2.1	1.4	4.0	2.0	2.0	1.0	1
MUSKOKA	2	1	1.0	0.0	1.0	1.0	1.0	1.0	1
NIAGARA	3	2	1.0	1.0	2.0	2.0	1.0	0.0	0
NIPISSING	8	2	1.0	0.5	2.0	1.0	1.0	1.0	0
NORTHUMBERLAND	31	5	1.6	1.2	3.0	2.0	1.0	1.0	1
OTTAWA.CARLTON	46	13	2.0	2.6	5.0	2.0	1.0	1.0	0
OXFORD	16	4	2.0	1.3	4.0	3.0	1.5	1.0	1
PARRYSOUND	4	1	1.0	0.0	1.0	1.0	1.0	1.0	1
PEEL	10	4	1.4	1.5	3.5	3.0	1.0	0.0	0
PERTH	35	30	2.4	4.9	4.0	2.0	1.0	1.0	0
PETERBOROUGH	77	45	2.5	5.9	4.0	2.0	1.0	1.0	1
PRESCOTT	12	24	3.4	6.6	5.0	2.0	1.0	1.0	1
PRINCE.EDWARD	10	5	1.5	1.4	3.5	2.0	1.0	1.0	0
RAINY.RIVER	58	6	2.0	1.3	4.0	3.0	2.0	1.0	1
RENFREW	153	22	2.2	2.6	4.0	3.0	2.0	1.0	1
RUSSELL	7	4	1.6	1.4	4.0	3.0	1.0	1.0	0
SIMCOE	51	7	1.6	1.4	3.0	2.0	1.0	1.0	1
STORMONT	8	3	1.1	0.9	3.0	1.5	1.0	0.5	0
SUDBURY	18	2	1.1	0.4	2.0	1.0	1.0	1.0	1
THUNDER.BAY	2	14	7.0	9.9	14.0	14.0	7.0	0.0	0
TIMISKAMING	24	101	7.3	21.6	3.0	2.0	2.0	1.0	0
VICTORIA	98	19	1.7	2.1	3.0	2.0	1.0	1.0	0
WATERLOO	6	6	2.3	2.3	6.0	4.0	1.5	1.0	0
WELLINGTON	41	13	1.7	2.7	3.0	1.0	1.0	1.0	0
YORK	4	5	2.3	2.1	5.0	3.5	2.0	1.0	0

Table 4. Average and Location Measures for the Number Cows Exposed, by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	124	46.9	25.7	82.0	61.0	47.0	27.0	20
BRANT	8	245	68.6	74.3	245.0	69.5	45.5	27.0	20
BRUCE	191	466	57.6	51.7	110.0	68.0	44.0	29.0	20
COCHRANE	18	100	39.0	23.6	75.0	54.0	34.0	21.0	15
DUFFERIN	35	114	39.4	24.2	77.0	53.0	34.0	21.0	17
DUNDAS	7	74	26.1	22.2	74.0	33.0	16.0	13.0	13
DURHAM.E	11	175	63.4	50.1	145.0	62.0	45.0	44.0	22
DURHAM.W	27	330	60.1	69.3	167.0	64.0	34.0	26.0	16
ELGIN	31	139	40.5	31.6	83.0	57.0	31.0	18.0	14
ESSEX	8	25	16.4	5.1	25.0	20.0	15.0	12.5	11
FRONTENAC	29	255	39.4	45.9	60.0	48.0	25.0	18.0	12
GLENGARRY	21	40	21.1	8.0	30.0	26.0	21.0	15.0	12
GRENVILLE	12	89	26.4	20.8	34.0	27.5	21.0	16.0	12
GREY	153	325	47.5	37.9	90.0	54.0	38.0	25.0	19
HALIBURTON	1	57	57.0	.	57.0	57.0	57.0	57.0	57
HALTON	5	80	39.2	22.9	80.0	31.0	31.0	30.0	24
HASTINGS	42	88	35.9	20.5	68.0	52.0	30.0	17.0	14
HLDMND.NRFLK	18	100	40.9	23.3	83.0	53.0	32.0	26.0	18
HMLTN.WNTWRTH	8	70	28.1	17.7	70.0	27.5	25.0	17.5	15
HURON	77	232	49.4	42.3	89.0	56.0	35.0	24.0	173
KENORA	4	133	56.0	51.8	133.0	86.5	34.0	25.5	23
KENT	12	98	41.4	26.3	75.0	50.5	43.5	18.5	14
LAMBTON	33	170	53.5	45.5	145.0	59.0	40.0	27.0	13
LANARK	70	150	37.8	28.4	67.5	47.0	30.0	18.0	14
LEEDS	12	66	30.8	18.4	60.0	43.5	25.0	16.0	13
LNNX.ADD	29	88	38.6	17.7	61.0	50.0	38.0	25.0	17
MANITOULIN	44	220	55.8	40.4	103.0	70.5	43.0	28.5	23
MIDDLESEX	29	192	56.6	43.9	123.0	65.0	45.0	26.0	14
MUSKOKA	3	32	25.3	5.9	32.0	32.0	23.0	21.0	21
NIAGARA	3	55	29.7	22.3	55.0	55.0	21.0	13.0	13
NIPISSING	8	34	20.1	9.1	34.0	27.0	20.5	11.0	10
NORTHUMBERLAND	31	103	33.4	22.1	63.0	43.0	25.0	18.0	15
OTTAWA.CARLTON	48	140	33.4	25.6	66.0	38.5	24.5	19.5	13
OXFORD	16	112	49.4	30.3	94.0	69.0	44.0	23.5	17
PARRYSOUND	4	47	29.3	14.7	47.0	41.0	28.0	17.5	14
PEEL	10	83	44.7	25.7	81.5	75.0	38.0	26.0	17
PERTH	35	135	43.8	27.7	78.0	60.0	38.0	20.0	14
PETERBOROUGH	77	140	42.1	29.5	84.0	54.0	33.0	22.0	14
PRESCOTT	12	510	85.5	139.7	159.0	70.0	36.0	19.5	17
PRINCE.EDWARD	10	45	29.4	10.7	44.0	38.0	31.0	18.0	16
RAINY.RIVER	59	165	47.3	29.2	85.0	65.0	40.0	26.0	18
RENFREW	154	220	51.8	38.3	102.0	66.0	42.0	25.0	18
RUSSELL	7	52	31.4	12.6	52.0	40.0	28.0	18.0	17
SIMCOE	52	129	40.2	26.9	71.0	54.5	36.0	21.0	13
STORMONT	8	43	28.0	11.3	43.0	37.5	27.5	20.5	10
SUDBURY	19	73	28.8	14.5	40.0	37.0	26.0	19.0	12
THUNDER.BAY	2	35	29.5	7.8	35.0	35.0	29.5	24.0	24
TIMISKAMING	23	114	48.0	26.4	88.0	61.0	39.0	33.0	20
VICTORIA	98	151	36.6	24.1	66.0	46.0	30.0	20.0	14
WATERLOO	6	114	42.7	36.2	114.0	43.0	30.0	25.0	14
WELLINGTON	41	262	42.8	40.2	55.0	46.0	34.0	24.0	18
YORK	4	87	43.5	31.3	87.0	66.0	35.0	21.0	17

Table 5. Average and Location Measures for the Number Calves Weaned, by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	106	41.6	22.5	75.0	54.0	39.0	23.0	18.0
BRANT	8	171	55.5	50.3	171.0	61.5	45.0	20.5	19.0
BRUCE	190	426	49.4	42.9	93.5	59.0	38.0	26.0	17.0
COCHRANE	18	85	32.6	20.1	64.0	44.0	26.5	20.0	13.0
DUFFERIN	35	83	34.2	19.8	63.0	50.0	27.0	18.0	14.0
DUNDAS	7	49	20.7	13.8	49.0	28.0	15.0	12.0	10.0
DURHAM.E	10	154	56.8	46.5	142.0	47.0	42.5	33.0	17.0
DURHAM.W	25	266	50.6	57.5	147.0	51.0	31.0	23.0	13.0
ELGIN	30	120	33.7	26.4	72.0	40.0	23.5	15.0	11.5
ESSEX	8	25	15.0	4.7	25.0	16.5	14.5	11.5	10.0
FRONTENAC	29	231	35.7	41.8	52.0	40.0	23.0	17.0	12.0
GLENGARRY	21	30	18.1	6.1	26.0	21.0	18.0	14.0	10.0
GRENVILLE	12	89	24.2	21.4	32.0	25.0	16.0	14.0	12.0
GREY	152	220	41.1	29.7	76.0	49.5	35.0	23.0	17.0
HALIBURTON	1	56	56.0	.	56.0	56.0	56.0	56.0	56.0
HALTON	4	28	25.8	2.6	28.0	28.0	26.0	23.5	23.0
HASTINGS	41	80	32.6	19.3	61.0	48.0	29.0	17.0	13.0
HLDMND.NRFLK	18	100	36.8	22.7	70.0	45.0	30.0	25.0	15.0
HMLTN.WNTWRTH	8	29	20.6	7.2	29.0	27.0	22.0	14.0	10.0
HURON	77	212	43.9	38.9	79.0	54.0	31.0	22.0	16.0
KENORA	4	123	51.3	48.8	123.0	81.5	32.5	21.0	17.01
KENT	12	94	38.7	25.4	72.0	48.0	38.0	18.0	13.0
LAMBTON	31	161	48.5	43.9	133.0	55.0	33.0	20.0	12.0
LANARK	68	138	32.2	25.2	54.0	37.0	26.5	16.5	12.0
LEEDS	12	57	26.3	14.5	40.0	38.5	22.5	13.5	12.0
LNNX.ADD	29	86	34.4	17.6	53.0	47.0	35.0	20.0	12.0
MANITOULIN	40	206	47.5	37.7	96.5	54.5	37.5	24.0	16.5
MIDDLESEX	28	154	45.9	37.6	104.0	56.0	36.0	21.5	13.0
MUSKOKA	3	30	23.3	6.5	30.0	30.0	23.0	17.0	17.0
NIAGARA	3	49	27.3	18.9	49.0	49.0	19.0	14.0	14.0
NIPISSING	8	34	18.9	8.8	34.0	25.0	18.0	11.5	8.0
NORTHUMBERLAND	31	92	29.5	19.4	53.0	38.0	22.0	15.0	13.0
OTTAWA.CARLTON	48	113	28.6	20.6	58.0	33.0	21.0	16.0	12.0
OXFORD	16	100	43.1	28.3	94.0	53.0	39.0	20.0	14.0
PARRYSOUND	4	34	25.3	9.8	34.0	33.5	26.5	17.0	14.0
PEEL	10	59	34.1	16.4	56.5	47.0	32.5	20.0	14.5
PERTH	35	96	36.6	22.2	65.0	51.0	27.0	20.0	11.0
PETERBOROUGH	75	113	36.4	24.9	73.0	49.0	30.0	16.0	13.0
PRESCOTT	12	382	68.1	102.6	100.0	68.5	35.0	16.5	13.0
PRINCE.EDWARD	10	45	23.9	9.0	38.0	25.0	23.0	17.0	14.5
RAINY.RIVER	59	145	41.6	25.4	77.0	50.0	35.0	22.0	18.0
RENFREW	153	196	45.7	33.9	92.0	58.0	35.0	22.0	17.0
RUSSELL	7	45	29.4	10.9	45.0	39.0	28.0	17.0	16.0
SIMCOE	52	109	36.2	23.7	68.0	45.5	30.5	20.0	12.0
STORMONT	8	38	24.8	9.1	38.0	32.0	23.0	20.0	10.0
SUDBURY	19	60	25.8	12.1	38.0	34.0	23.0	17.0	12.0
THUNDER.BAY	2	32	28.0	5.7	32.0	32.0	28.0	24.0	24.0
TIMISKAMING	24	104	41.2	19.8	65.0	48.5	37.5	29.5	24.0
VICTORIA	97	133	32.8	21.6	59.0	42.0	26.0	17.0	14.0
WATERLOO	6	95	36.5	29.9	95.0	37.0	27.5	20.0	12.0
WELLINGTON	41	231	37.1	35.2	47.0	39.0	31.0	21.0	15.0
YORK	4	81	38.3	29.1	81.0	56.0	27.5	20.5	17.0

Table 6. Average and Location Measures for Calving Spread (days), by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	18	300	114.4	63.0	233.0	126.0	104.5	75.0	54.0
BRANT	8	308	136.3	95.4	308.0	205.0	107.0	54.5	49.0
BRUCE	188	358	124.3	69.2	219.0	155.5	109.0	77.0	54.0
COCHRANE	18	318	102.2	62.8	161.0	113.0	90.0	66.0	53.0
DUFFERIN	34	246	104.7	50.8	182.0	121.0	91.5	66.0	57.0
DUNDAS	7	164	94.4	50.4	164.0	135.0	91.0	43.0	34.0
DURHAM.E	11	263	149.5	74.5	257.0	236.0	129.0	99.0	66.0
DURHAM.W	27	358	157.3	105.8	322.0	239.0	112.0	81.0	34.0
ELGIN	26	351	149.1	91.0	278.0	219.0	123.0	67.0	52.0
ESSEX	8	335	140.6	100.2	335.0	201.5	97.5	78.5	35.0
FRONTENAC	28	358	124.8	81.4	254.0	157.0	100.0	70.5	47.0
GLENGARRY	20	234	103.9	56.9	198.5	137.0	86.5	66.0	44.0
GRENVILLE	12	122	85.4	26.7	111.0	107.0	84.5	75.0	48.0
GREY	149	357	152.4	81.1	284.0	215.0	127.0	90.0	61.0
HALIBURTON	1	165	165.0	.	165.0	165.0	165.0	165.0	165.0
HALTON	5	334	177.8	93.0	334.0	166.0	160.0	144.0	85.0
HASTINGS	41	364	139.4	83.5	269.0	165.0	114.0	82.0	64.0
HLDMND.NRFLK	18	363	123.6	85.8	229.0	162.0	110.5	68.0	17.0
HMLTN.WNTWRTH	8	357	171.9	100.2	357.0	240.5	134.0	92.0	85.0
HURON	75	365	140.4	86.1	309.0	183.0	120.0	76.0	49.01
KENORA	4	288	128.8	106.7	288.0	188.5	82.0	69.0	63.0
KENT	11	208	111.2	45.9	160.0	147.0	97.0	85.0	68.0
LAMBTON	33	244	117.9	58.0	206.0	152.0	107.0	78.0	44.0
LANARK	67	355	149.3	98.3	311.0	218.0	108.0	73.0	47.0
LEEDS	12	363	191.5	107.3	333.0	280.5	186.0	91.0	86.0
LNNX.ADD	29	302	117.4	66.9	240.0	142.0	102.0	83.0	47.0
MANITOULIN	43	339	148.6	78.2	265.0	209.0	127.0	83.0	60.0
MIDDLESEX	28	253	145.3	61.5	225.0	212.0	136.0	90.5	76.0
MUSKOKA	3	228	202.0	28.2	228.0	228.0	206.0	172.0	172.0
NIAGARA	3	256	181.3	124.2	256.0	256.0	250.0	38.0	38.0
NIPISSING	8	125	72.1	29.2	125.0	89.0	68.5	51.0	35.0
NORTHUMBERLAND	29	363	148.4	91.3	338.0	199.0	93.0	83.0	66.0
OTTAWA.CARLTON	46	334	130.6	63.5	221.0	161.0	118.0	88.0	57.0
OXFORD	16	334	140.8	69.1	216.0	175.0	119.0	89.0	82.0
PARRYSOUND	4	163	113.5	45.4	163.0	152.0	108.0	75.0	75.0
PEEL	10	209	121.2	44.3	188.0	166.0	105.5	87.0	81.5
PERTH	35	352	173.9	99.6	304.0	279.0	149.0	91.0	62.0
PETERBOROUGH	75	364	159.9	85.3	302.0	215.0	123.0	104.0	73.0
PRESCOTT	12	195	81.8	44.0	120.0	94.0	73.5	58.5	50.0
PRINCE.EDWARD	10	207	116.3	52.9	194.5	160.0	106.5	76.0	51.0
RAINY.RIVER	58	330	104.3	64.6	223.0	108.0	83.0	65.0	44.0
RENFREW	152	347	130.1	68.4	233.0	172.0	114.5	75.0	58.0
RUSSELL	7	246	116.7	67.9	246.0	169.0	90.0	63.0	61.0
SIMCOE	52	364	120.0	80.9	254.0	136.5	86.5	71.0	56.0
STORMONT	8	254	119.1	71.4	254.0	149.5	124.5	60.0	31.0
SUDBURY	18	295	107.6	70.7	219.0	136.0	90.5	68.0	24.0
THUNDER.BAY	2	106	79.0	38.2	106.0	106.0	79.0	52.0	52.0
TIMISKAMING	24	211	115.4	39.5	181.0	131.5	110.0	87.5	75.0
VICTORIA	97	345	128.4	78.1	261.0	164.0	105.0	71.0	48.0
WATERLOO	6	305	157.2	98.4	305.0	260.0	100.5	90.0	87.0
WELLINGTON	41	363	146.6	87.7	273.0	209.0	116.0	82.0	70.0
YORK	4	262	158.5	86.6	262.0	230.0	143.0	87.0	86.0

Table 7. Average and Location Measures for Open Rate (%), by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	16	4.4	5.5	15.0	10.0	2.0	0.0	0
BRANT	8	8	3.1	2.6	8.0	4.5	3.0	1.0	0
BRUCE	191	44	4.1	6.1	10.0	5.0	3.0	0.0	0
COCHRANE	18	17	4.6	5.2	11.0	9.0	4.0	0.0	0
DUFFERIN	35	16	4.7	4.8	12.0	8.0	4.0	0.0	0
DUNDAS	7	8	2.4	3.4	8.0	6.0	0.0	0.0	0
DURHAM.E	11	11	5.0	3.9	9.0	9.0	6.0	2.0	0
DURHAM.W	27	23	5.9	6.3	18.0	7.0	5.0	0.0	0
ELGIN	31	45	7.8	11.7	24.0	9.0	3.0	0.0	0
ESSEX	8	0	0.0	0.0	0.0	0.0	0.0	0.0	0
FRONTENAC	29	31	5.6	6.5	12.0	8.0	4.0	0.0	0
GLENGARRY	20	29	4.8	7.1	12.0	7.0	2.0	0.0	0
GRENVILLE	12	14	3.8	4.8	10.0	7.0	1.5	0.0	0
GREY	152	28	3.8	5.2	10.0	5.5	2.0	0.0	0
HALIBURTON	1	0	0.0	.	0.0	0.0	0.0	0.0	0
HALTON	5	4	2.0	1.9	4.0	3.0	3.0	0.0	0
HASTINGS	42	25	3.8	5.9	12.0	6.0	1.0	0.0	0
HLDMND.NRFLK	18	13	3.7	3.9	10.0	6.0	4.5	0.0	0
HMLTN.WNTWRTH	8	33	11.8	10.9	33.0	18.0	9.0	3.5	0
HURON	77	89	5.5	10.7	11.0	7.0	3.0	0.0	0
KENORA	4	9	4.3	4.4	9.0	8.0	4.0	0.5	0
KENT	12	14	2.2	4.2	6.0	2.5	0.0	0.0	0
LAMBTON	33	18	3.8	4.6	10.0	7.0	2.0	0.0	0
LANARK	70	31	3.9	5.5	9.0	7.0	2.0	0.0	0
LEEDS	12	11	2.8	3.7	8.0	4.5	1.5	0.0	0
LNNX.ADD	29	24	4.4	6.2	15.0	6.0	2.0	0.0	0
MANITOULIN	44	35	4.8	5.9	9.0	7.0	4.0	0.0	0
MIDDLESEX	29	15	6.1	4.4	12.0	10.0	6.0	3.0	0
MUSKOKA	3	10	3.3	5.8	10.0	10.0	0.0	0.0	0
NIAGARA	3	9	7.3	2.1	9.0	9.0	8.0	5.0	5
NIPISSING	8	13	1.6	4.6	13.0	0.0	0.0	0.0	0
NORTHUMBERLAND	31	18	5.3	5.6	13.0	11.0	5.0	0.0	0
OTTAWA.CARLTON	47	22	4.6	4.9	9.0	7.0	5.0	0.0	0
OXFORD	16	15	4.4	4.9	11.0	8.0	2.0	0.0	0
PARRYSOUND	4	3	0.8	1.5	3.0	1.5	0.0	0.0	0
PEEL	10	39	10.0	13.3	32.5	17.0	5.5	0.0	0
PERTH	35	21	3.7	5.1	9.0	6.0	2.0	0.0	0
PETERBOROUGH	77	47	5.1	8.2	11.0	7.0	3.0	0.0	0
PRESCOTT	12	11	4.0	4.4	10.0	8.5	3.0	0.0	0
PRINCE.EDWARD	10	21	8.1	7.3	18.5	13.0	6.5	0.0	0
RAINY.RIVER	59	29	5.3	5.8	12.0	8.0	4.0	0.0	0
RENFREW	154	36	3.6	5.4	8.0	5.0	2.0	0.0	01
RUSSELL	7	10	3.9	4.3	10.0	8.0	2.0	0.0	0
SIMCOE	52	11	2.6	3.0	7.0	4.0	2.0	0.0	0
STORMONT	8	12	4.0	4.4	12.0	7.0	3.0	0.0	0
SUDBURY	19	16	1.7	4.1	9.0	0.0	0.0	0.0	0
THUNDER.BAY	2	9	6.5	3.5	9.0	9.0	6.5	4.0	4
TIMISKAMING	23	38	4.1	8.5	10.0	4.0	0.0	0.0	0
VICTORIA	98	21	3.3	4.5	9.0	5.0	2.0	0.0	0
WATERLOO	6	24	11.2	9.9	24.0	22.0	8.5	4.0	0
WELLINGTON	41	33	4.5	5.8	9.0	6.0	3.0	0.0	0
YORK	4	7	3.0	3.2	7.0	5.5	2.5	0.5	0

Table 8. Average and Location Measures for Removal Rate (%), by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	75	15.9	15.4	30.0	16.0	12.0	8.0	8.0
BRANT	8	51	11.9	16.5	51.0	11.5	8.5	2.0	0.0
BRUCE	189	48	11.7	9.9	25.0	17.0	9.0	5.0	0.0
COCHRANE	18	33	11.7	9.9	27.0	19.0	9.0	5.0	0.0
DUFFERIN	35	25	11.1	6.9	21.0	15.0	11.0	6.0	0.0
DUNDAS	7	28	17.0	9.1	28.0	23.0	20.0	12.0	0.0
DURHAM.E	11	54	15.5	15.0	24.0	21.0	11.0	7.0	0.0
DURHAM.W	26	51	13.0	11.9	25.0	18.0	12.0	3.0	0.0
ELGIN	29	40	9.9	9.8	21.0	15.0	9.0	0.0	0.0
ESSEX	8	22	8.8	8.7	22.0	16.5	7.5	0.0	0.0
FRONTENAC	29	38	13.2	9.7	32.0	17.0	12.0	6.0	3.0
GLENGARRY	21	32	12.2	9.1	21.0	19.0	12.0	6.0	0.0
GRENVILLE	12	97	21.6	25.9	40.0	21.5	14.5	8.0	5.0
GREY	153	90	12.0	10.9	25.0	15.0	10.0	5.0	0.0
HALIBURTON	1	16	16.0	.	16.0	16.0	16.0	16.0	16.0
HALTON	5	13	7.2	6.2	13.0	12.0	10.0	1.0	0.0
HASTINGS	42	36	10.9	8.9	23.0	15.0	10.0	4.0	0.0
HLDMND.NRFLK	18	23	11.7	6.6	21.0	15.0	12.0	6.0	4.0
HMLTN.WNTWRTH	7	23	9.6	8.9	23.0	20.0	5.0	3.0	0.0
HURON	75	33	10.3	7.4	20.0	15.0	9.0	5.0	0.0
KENORA	4	13	6.5	5.7	13.0	11.0	6.5	2.0	0.0
KENT	12	39	12.1	10.3	21.0	15.5	10.0	6.0	2.0
LAMBTON	32	31	7.6	7.8	18.0	12.5	5.5	0.0	0.0
LANARK	70	59	12.9	11.5	27.5	20.0	11.5	4.0	0.0
LEEDS	12	39	10.8	12.3	30.0	13.5	7.5	2.0	0.0
LNNX.ADD	29	30	12.3	8.7	25.0	18.0	10.0	6.0	0.0
MANITOULIN	44	35	10.6	7.7	20.0	15.5	8.0	5.0	4.0
MIDDLESEX	29	23	11.4	6.7	21.0	15.0	11.0	7.0	0.0
MUSKOKA	3	22	13.0	8.5	22.0	22.0	12.0	5.0	5.0
NIAGARA	3	7	4.0	3.6	7.0	7.0	5.0	0.0	0.0
NIPISSING	8	20	9.5	6.2	20.0	12.5	10.5	5.0	0.0
NORTHUMBERLAND	30	46	16.1	12.5	35.5	21.0	12.5	6.0	2.5
OTTAWA.CARLTON	48	56	13.9	13.5	34.0	18.5	10.5	5.0	0.0
OXFORD	15	60	13.6	14.7	24.0	18.0	11.0	4.0	3.0
PARRYSOUND	4	46	25.0	19.1	46.0	38.0	27.0	12.0	0.0
PEEL	10	25	11.5	9.7	23.5	22.0	10.5	2.0	0.0
PERTH	35	54	11.9	12.9	33.0	16.0	8.0	3.0	0.0
PETERBOROUGH	77	66	12.3	11.4	22.0	15.0	11.0	6.0	0.0
PRESCOTT	11	33	13.5	9.7	26.0	20.0	12.0	7.0	3.0
PRINCE.EDWARD	10	28	12.6	9.4	25.0	19.0	13.5	6.0	0.0
RAINY.RIVER	59	57	12.1	11.5	26.0	18.0	9.0	3.0	0.0
RENFREW	154	81	13.0	12.8	27.0	16.0	10.0	5.0	0.0
RUSSELL	7	56	16.7	18.2	56.0	22.0	8.0	7.0	6.0
SIMCOE	52	41	10.9	10.2	23.0	14.5	7.5	4.0	0.0
STORMONT	8	19	8.8	7.0	19.0	14.5	7.5	3.5	0.0
SUDBURY	19	35	10.1	8.5	21.0	14.0	8.0	5.0	0.0
THUNDER.BAY	2	63	35.5	38.9	63.0	63.0	35.5	8.0	8.0
TIMISKAMING	23	76	13.8	15.6	23.0	17.0	11.0	5.0	0.0
VICTORIA	97	57	11.5	9.9	21.0	17.0	11.0	5.0	0.0
WATERLOO	6	43	16.0	13.5	43.0	15.0	11.5	8.0	7.0
WELLINGTON	41	44	11.7	10.2	25.0	15.0	10.0	5.0	2.0
YORK	4	20	11.5	8.4	20.0	17.0	13.0	6.0	0.0

Table 9. Average and Location Measures for Calving Rate (%), by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	105	95.4	6.7	104.0	102.0	94.0	90.0	85.0
BRANT	8	105	92.0	10.8	105.0	100.0	95.0	82.5	76.0
BRUCE	191	113	94.5	10.5	103.0	100.0	97.0	92.0	84.0
COCHRANE	18	105	94.1	6.6	100.0	100.0	94.5	89.0	83.0
DUFFERIN	35	112	94.4	10.0	103.0	100.0	97.0	86.0	76.0
DUNDAS	7	100	93.7	9.7	100.0	100.0	97.0	92.0	73.0
DURHAM.E	11	100	92.6	5.3	100.0	98.0	93.0	89.0	89.0
DURHAM.W	27	108	92.2	9.2	100.0	100.0	95.0	84.0	77.0
ELGIN	31	109	90.8	14.3	104.0	100.0	95.0	83.0	76.0
ESSEX	8	107	100.9	2.5	107.0	100.0	100.0	100.0	100.0
FRONTENAC	29	107	95.7	8.3	100.0	100.0	98.0	92.0	88.0
GLENGARRY	21	108	94.4	7.9	100.0	100.0	96.0	89.0	80.0
GRENVILLE	12	108	95.5	9.7	104.0	100.0	98.5	92.0	86.0
GREY	153	113	95.2	10.1	104.0	100.0	98.0	92.0	81.0
HALIBURTON	1	100	100.0	.	100.0	100.0	100.0	100.0	100.0
HALTON	5	103	91.6	13.5	103.0	100.0	100.0	83.0	72.0
HASTINGS	42	106	95.5	7.6	100.0	100.0	100.0	94.0	86.0
HLDMND.NRFLK	18	103	96.0	6.2	100.0	100.0	100.0	94.0	87.0
HMLTN.WNTWRTH	8	100	87.9	11.2	100.0	98.0	88.0	82.0	67.0
HURON	77	108	95.0	11.3	102.0	100.0	97.0	92.0	87.0
KENORA	4	100	97.0	3.2	100.0	99.5	97.5	94.5	93.0
KENT	12	107	98.4	5.9	103.0	101.5	100.0	96.0	92.0
LAMBTON	33	113	96.3	6.0	103.0	100.0	97.0	93.0	88.0
LANARK	70	108	92.6	11.4	101.5	100.0	96.5	87.0	77.5
LEEDS	12	109	93.5	11.5	103.0	100.0	96.5	89.5	78.0
LNNX.ADD	29	104	94.2	7.9	100.0	100.0	97.0	91.0	80.0
MANITOULIN	44	104	94.5	7.5	100.0	100.0	96.0	92.0	86.0
MIDDLESEX	29	100	91.4	10.7	100.0	98.0	93.0	88.0	82.0
MUSKOKA	3	100	96.7	5.8	100.0	100.0	100.0	90.0	90.0
NIAGARA	3	108	97.3	9.7	108.0	108.0	95.0	89.0	89.0
NIPISSING	8	100	97.8	4.7	100.0	100.0	100.0	97.5	87.0
NORTHUMBERLAND	31	100	94.1	6.1	100.0	100.0	96.0	89.0	84.0
OTTAWA.CARLTON	48	112	95.3	7.6	100.0	100.0	96.0	93.0	88.0
OXFORD	16	129	97.8	10.3	106.0	100.0	99.0	92.0	85.0
PARRYSOUND	4	100	93.0	14.0	100.0	100.0	100.0	86.0	72.0
PEEL	10	111	89.3	16.6	107.5	100.0	94.5	74.0	66.0
PERTH	35	106	95.1	7.1	101.0	100.0	97.0	91.0	82.0
PETERBOROUGH	77	108	93.1	10.3	102.0	100.0	96.0	91.0	79.0
PRESCOTT	12	104	90.6	12.1	100.0	100.0	93.0	85.5	71.0
PRINCE.EDWARD	10	102	85.6	12.4	101.0	94.0	86.0	72.0	69.0
RAINY.RIVER	59	109	94.3	8.8	105.0	100.0	96.0	89.0	80.0
RENFREW	154	108	95.0	7.9	100.0	100.0	97.0	93.0	87.0
RUSSELL	7	106	97.4	7.2	106.0	106.0	98.0	92.0	87.0
SIMCOE	52	110	98.5	5.1	105.0	100.0	100.0	95.0	93.0
STORMONT	8	100	96.8	4.4	100.0	100.0	99.0	94.0	88.0
SUDBURY	19	100	95.6	8.6	100.0	100.0	100.0	94.0	84.0
THUNDER.BAY	2	100	95.5	6.4	100.0	100.0	95.5	91.0	91.0
TIMISKAMING	23	111	95.2	9.5	103.0	100.0	100.0	90.0	83.0
VICTORIA	98	108	96.4	7.1	103.0	100.0	100.0	94.0	87.0
WATERLOO	6	104	94.2	10.1	104.0	103.0	95.5	89.0	78.0
WELLINGTON	41	122	95.8	10.2	104.0	100.0	97.0	92.0	89.0
YORK	4	100	96.5	4.0	100.0	99.5	97.5	93.5	91.0

Table 10. Average and Location Measures for Liveborn Calving Rate (%), by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	100	90.9	6.6	100.0	97.0	90.0	87.0	80.0
BRANT	8	100	88.9	11.8	100.0	100.0	90.0	81.0	69.0
BRUCE	191	113	91.7	10.9	100.0	98.0	94.0	88.0	80.0
COCHRANE	18	105	89.9	9.8	100.0	100.0	90.5	83.0	77.0
DUFFERIN	35	109	91.2	10.5	102.0	100.0	94.0	82.0	75.0
DUNDAS	7	100	91.7	9.1	100.0	100.0	92.0	91.0	73.0
DURHAM.E	11	100	89.4	7.6	96.0	96.0	91.0	85.0	77.0
DURHAM.W	27	108	89.5	9.3	100.0	96.0	91.0	83.0	76.0
ELGIN	31	106	88.7	14.9	100.0	100.0	94.0	81.0	75.0
ESSEX	8	100	97.4	3.9	100.0	100.0	100.0	94.0	91.0
FRONTENAC	29	107	93.2	9.1	100.0	98.0	95.0	89.0	84.0
GLENGARRY	21	108	90.4	10.7	100.0	100.0	93.0	82.0	77.0
GRENVILLE	12	108	93.3	9.9	100.0	100.0	94.0	89.5	81.0
GREY	153	113	92.5	10.2	101.0	100.0	95.0	88.0	80.0
HALIBURTON	1	100	100.0	.	100.0	100.0	100.0	100.0	100.0
HALTON	5	100	88.6	13.5	100.0	97.0	97.0	80.0	69.0
HASTINGS	42	106	92.6	8.9	100.0	100.0	94.0	89.0	82.0
HLDMND.NRFLK	18	102	92.9	6.8	100.0	100.0	93.5	89.0	81.0
HMLTN.WNTWRTH	8	100	85.5	14.1	100.0	98.0	88.0	76.0	60.0
HURON	77	105	91.6	11.7	100.0	98.0	94.0	88.0	80.0
KENORA	4	100	93.8	5.4	100.0	97.5	94.0	90.0	87.0
KENT	12	105	94.2	8.0	101.0	99.0	95.0	91.5	90.0
LAMBTON	33	113	94.0	7.2	102.0	97.0	95.0	91.0	86.0
LANARK	70	107	90.4	11.9	100.0	100.0	93.5	86.0	74.5
LEEDS	12	100	89.4	11.9	100.0	98.0	92.0	88.5	67.0
LNNX.ADD	29	104	91.5	9.5	100.0	98.0	95.0	88.0	74.0
MANITOULIN	44	102	90.9	8.0	100.0	97.0	91.5	88.0	83.0
MIDDLESEX	29	100	87.6	10.2	97.0	93.0	89.0	83.0	79.0
MUSKOKA	3	100	93.3	7.0	100.0	100.0	94.0	86.0	86.0
NIAGARA	3	108	95.7	10.7	108.0	108.0	90.0	89.0	89.0
NIPISSING	8	100	93.5	7.7	100.0	100.0	95.5	88.5	80.03
NORTHUMBERLAND	31	100	91.0	7.7	100.0	100.0	91.0	87.0	83.0
OTTAWA.CARLTON	48	108	91.4	8.6	100.0	97.5	92.0	88.5	78.0
OXFORD	16	100	90.2	7.4	98.0	96.5	91.5	84.5	79.0
PARRYSOUND	4	100	91.3	14.4	100.0	100.0	97.5	82.5	70.0
PEEL	10	104	83.8	14.4	99.5	94.0	89.0	69.0	63.0
PERTH	35	105	91.3	9.6	100.0	99.0	92.0	88.0	76.0
PETERBOROUGH	77	105	90.5	10.5	100.0	100.0	92.0	87.0	76.0
PRESCOTT	12	100	88.6	12.4	100.0	98.5	93.0	80.0	71.0
PRINCE.EDWARD	10	102	85.3	12.9	101.0	94.0	86.0	72.0	67.5
RAINY.RIVER	59	106	90.8	9.2	100.0	99.0	92.0	85.0	77.0
RENFREW	154	106	91.6	8.0	100.0	97.0	94.0	88.0	82.0
RUSSELL	7	100	93.9	5.8	100.0	100.0	94.0	87.0	86.0
SIMCOE	52	109	94.7	6.5	102.0	100.0	95.0	91.0	87.0
STORMONT	8	100	92.9	5.6	100.0	98.0	93.0	88.0	85.0
SUDBURY	19	100	92.9	10.8	100.0	100.0	95.0	91.0	78.0
THUNDER.BAY	2	100	95.5	6.4	100.0	100.0	95.5	91.0	91.0
TIMISKAMING	23	109	91.4	10.6	100.0	98.0	95.0	85.0	81.0
VICTORIA	98	105	93.5	7.9	100.0	100.0	95.0	89.0	81.0
WATERLOO	6	100	89.2	9.8	100.0	100.0	87.5	86.0	74.0
WELLINGTON	41	104	90.8	9.5	100.0	97.0	92.0	89.0	78.0
YORK	4	100	92.0	9.7	100.0	98.0	95.0	86.0	78.0

Table 11. Average and Location Measures for Stillborn Rate (%), by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	13	4.7	4.2	11.0	9.0	5.0	0.0	0
BRANT	8	9	3.6	3.8	9.0	7.0	3.0	0.0	0
BRUCE	191	24	3.1	3.9	8.0	5.0	2.0	0.0	0
COCHRANE	18	26	4.5	6.6	13.0	7.0	3.0	0.0	0
DUFFERIN	35	17	3.5	4.4	12.0	6.0	2.0	0.0	0
DUNDAS	7	8	2.0	3.5	8.0	6.0	0.0	0.0	0
DURHAM.E	11	15	3.6	4.3	6.0	5.0	2.0	0.0	0
DURHAM.W	27	7	3.0	2.5	6.0	5.0	4.0	0.0	0
ELGIN	31	21	2.4	4.6	8.0	3.0	0.0	0.0	0
ESSEX	8	9	3.6	4.2	9.0	8.0	2.0	0.0	0
FRONTENAC	29	12	2.6	3.3	6.0	4.0	2.0	0.0	0
GLENGARRY	21	20	4.5	6.2	11.0	7.0	3.0	0.0	0
GRENVILLE	12	11	2.3	3.5	6.0	4.0	0.0	0.0	0
GREY	153	16	2.9	3.1	6.0	5.0	2.0	0.0	0
HALIBURTON	1	0	0.0	.	0.0	0.0	0.0	0.0	0
HALTON	5	7	3.8	2.6	7.0	5.0	4.0	3.0	0
HASTINGS	42	15	3.1	3.3	7.0	5.0	3.0	0.0	0
HLDMND.NRFLK	18	15	3.3	3.9	7.0	5.0	2.5	0.0	0
HMLTN.WNTWRTH	8	11	3.1	4.5	11.0	7.0	0.0	0.0	0
HURON	77	23	3.7	4.4	9.0	5.0	3.0	0.0	0
KENORA	4	10	3.5	4.7	10.0	7.0	2.0	0.0	0
KENT	12	13	4.3	3.9	9.0	6.5	3.0	1.5	0
LAMBTON	33	17	2.3	3.7	7.0	3.0	0.0	0.0	0
LANARK	70	14	2.5	3.4	7.5	4.0	0.0	0.0	0
LEEDS	12	18	4.5	6.3	15.0	7.5	2.0	0.0	0
LNNX.ADD	29	12	3.0	3.5	8.0	6.0	2.0	0.0	0
MANITOULIN	44	15	3.8	3.6	8.0	6.0	3.0	0.0	0
MIDDLESEX	29	21	4.1	4.9	11.0	7.0	3.0	0.0	0
MUSKOKA	3	6	3.7	3.2	6.0	6.0	5.0	0.0	0
NIAGARA	3	5	1.7	2.9	5.0	5.0	0.0	0.0	0
NIPISSING	8	20	4.3	7.2	20.0	7.0	0.0	0.0	0
NORTHUMBERLAND	31	14	3.4	4.1	8.0	6.0	2.0	0.0	0
OTTAWA.CARLTON	48	24	4.1	5.4	11.0	5.5	3.0	0.0	0
OXFORD	16	41	7.9	10.1	17.0	10.0	5.5	2.0	0
PARRYSOUND	4	5	2.0	2.4	5.0	4.0	1.5	0.0	0
PEEL	10	22	6.2	6.5	15.0	8.0	5.5	0.0	0
PERTH	35	40	3.9	6.8	7.0	5.0	2.0	0.0	0
PETERBOROUGH	77	17	2.9	3.6	8.0	5.0	2.0	0.0	0
PRESCOTT	12	6	2.3	2.5	6.0	4.5	1.5	0.0	0
PRINCE.EDWARD	10	4	0.4	1.3	2.0	0.0	0.0	0.0	0
RAINY.RIVER	59	18	3.8	4.2	8.0	6.0	3.0	0.0	0
RENFREW	154	18	3.5	3.9	9.0	6.0	3.0	0.0	0
RUSSELL	7	12	3.6	4.8	12.0	7.0	0.0	0.0	0
SIMCOE	52	20	3.9	4.5	9.0	6.5	3.0	0.0	0
STORMONT	8	12	4.0	4.6	12.0	7.0	3.0	0.0	0
SUDBURY	19	15	3.3	4.3	12.0	5.0	3.0	0.0	0
THUNDER.BAY	2	0	0.0	0.0	0.0	0.0	0.0	0.0	0
TIMISKAMING	23	14	4.3	4.3	12.0	5.0	3.0	1.0	0
VICTORIA	98	13	3.1	3.5	9.0	5.0	2.0	0.0	0
WATERLOO	6	15	5.3	4.8	15.0	5.0	3.5	3.0	2
WELLINGTON	41	28	5.3	5.4	12.0	7.0	4.0	3.0	0
YORK	4	16	5.3	7.5	16.0	10.5	2.5	0.0	0

Table 12. Average and Location Measures for **Assisted Calving Rate (%)**, by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	25	9.9	7.9	22.0	18.0	7.0	4.0	0.0
BRANT	8	55	14.6	17.7	55.0	17.0	11.5	2.5	0.0
BRUCE	191	45	7.7	7.8	17.0	11.0	6.0	3.0	0.0
COCHRANE	18	41	9.6	11.6	26.0	15.0	5.5	0.0	0.0
DUFFERIN	35	33	7.8	8.7	18.0	12.0	6.0	0.0	0.0
DUNDAS	7	21	11.0	8.5	21.0	19.0	13.0	0.0	0.0
DURHAM.E	11	10	3.4	4.1	10.0	8.0	2.0	0.0	0.0
DURHAM.W	27	22	8.7	6.8	18.0	15.0	6.0	3.0	0.0
ELGIN	31	58	12.2	13.3	30.0	13.0	8.0	5.0	0.0
ESSEX	8	18	9.8	5.3	18.0	13.0	9.0	8.0	0.0
FRONTENAC	29	50	11.6	12.7	36.0	12.0	8.0	4.0	0.0
GLENGARRY	21	60	10.8	12.9	20.0	12.0	8.0	4.0	0.0
GRENVILLE	12	45	11.5	12.5	20.0	16.5	8.0	3.0	0.0
GREY	153	100	10.6	13.2	21.0	13.0	8.0	3.0	0.0
HALIBURTON	1	9	9.0	.	9.0	9.0	9.0	9.0	9.0
HALTON	5	16	8.4	6.4	16.0	12.0	10.0	4.0	0.0
HASTINGS	42	61	9.2	13.2	15.0	11.0	6.0	1.0	0.0
HLDMND.NRFLK	18	53	12.2	14.1	32.0	19.0	8.0	0.0	0.0
HMLTN.WNTWRTH	8	33	7.8	10.7	33.0	7.5	6.0	1.0	0.0
HURON	77	58	10.8	11.6	28.0	15.0	7.0	3.0	0.0
KENORA	4	29	11.8	12.9	29.0	21.5	9.0	2.0	0.0
KENT	12	53	12.8	15.4	28.0	17.5	9.0	1.5	0.0
LAMBTON	33	100	9.1	17.4	17.0	11.0	4.0	1.0	0.0
LANARK	70	37	5.2	6.6	11.5	8.0	4.0	0.0	0.0
LEEDS	12	28	8.7	8.0	15.0	12.5	8.5	2.5	0.0
LNNX.ADD	29	25	8.6	7.2	19.0	11.0	7.0	4.0	0.0
MANITOULIN	44	15	4.2	3.9	9.0	7.0	3.5	0.0	0.0
MIDDLESEX	29	57	8.3	11.2	19.0	8.0	6.0	2.0	0.0
MUSKOKA	3	22	13.0	8.5	22.0	22.0	12.0	5.0	5.0
NIAGARA	3	20	7.3	11.0	20.0	20.0	2.0	0.0	0.0
NIPISSING	8	9	2.5	3.6	9.0	5.5	0.0	0.0	0.0
NORTHUMBERLAND	31	50	9.0	12.2	21.0	12.0	4.0	0.0	0.0
OTTAWA.CARLTON	48	30	8.9	8.1	21.0	12.0	8.0	1.0	0.0
OXFORD	16	76	11.0	19.1	31.0	8.5	6.0	1.0	0.0
PARRYSOUND	4	21	13.8	8.1	21.0	20.0	15.5	7.5	3.0
PEEL	10	12	7.0	4.3	12.0	11.0	7.5	3.0	1.5
PERTH	35	74	11.5	14.3	28.0	15.0	7.0	3.0	0.0
PETERBOROUGH	76	31	8.7	7.8	20.0	14.5	7.0	1.5	0.0
PRESCOTT	12	64	16.6	17.3	31.0	19.5	12.5	6.0	1.0
PRINCE.EDWARD	10	19	10.4	6.1	17.0	14.0	12.0	9.0	0.0
RAINY.RIVER	59	84	12.1	13.3	24.0	18.0	9.0	3.0	0.0
RENFREW	154	80	8.3	10.5	17.0	11.0	6.0	2.0	0.0
RUSSELL	7	56	17.9	18.9	56.0	29.0	9.0	7.0	2.0
SIMCOE	52	50	7.2	8.7	15.0	10.0	5.0	1.5	0.0
STORMONT	8	39	9.8	12.9	39.0	13.0	5.5	1.0	0.0
SUDBURY	19	38	8.2	12.0	37.0	12.0	3.0	0.0	0.0
THUNDER.BAY	2	5	2.5	3.5	5.0	5.0	2.5	0.0	0.0
TIMISKAMING	23	45	10.4	11.3	26.0	15.0	10.0	0.0	0.0
VICTORIA	98	50	9.6	8.3	21.0	12.0	8.0	4.0	0.0
WATERLOO	6	24	13.7	8.3	24.0	23.0	11.5	9.0	3.0
WELLINGTON	41	41	7.4	7.9	15.0	12.0	5.0	3.0	0.0
YORK	4	24	15.3	8.5	24.0	22.5	14.5	8.0	8.0

Table 13. Average and Location Measures for **Calf Mortality Rate (%)**, by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	10	2.9	3.2	9.0	5.0	2.0	0.0	0
BRANT	8	10	2.1	3.6	10.0	3.5	0.0	0.0	0
BRUCE	187	35	3.2	5.2	8.0	5.0	1.0	0.0	0
COCHRANE	18	20	6.3	5.3	15.0	9.0	6.0	3.0	0
DUFFERIN	35	11	2.9	3.5	10.0	5.0	2.0	0.0	0
DUNDAS	7	17	7.3	6.3	17.0	13.0	7.0	0.0	0
DURHAM.E	9	31	4.0	10.2	31.0	2.0	0.0	0.0	0
DURHAM.W	25	21	4.4	5.1	11.0	7.0	4.0	0.0	0
ELGIN	30	33	4.1	7.0	12.0	5.0	1.0	0.0	0
ESSEX	8	27	5.1	9.4	27.0	7.0	0.0	0.0	0
FRONTENAC	28	12	2.1	3.5	9.0	4.0	0.0	0.0	0
GLENGARRY	21	17	3.2	4.8	9.0	7.0	0.0	0.0	0
GRENVILLE	12	19	4.0	6.5	12.0	8.5	0.0	0.0	0
GREY	147	22	3.6	4.5	10.0	5.0	2.0	0.0	0
HALIBURTON	1	2	2.0	.	2.0	2.0	2.0	2.0	2
HALTON	4	7	4.5	3.3	7.0	7.0	5.5	2.0	0
HASTINGS	41	14	2.5	3.9	10.0	4.0	0.0	0.0	0
HLMND.NRFLK	17	25	5.1	7.5	17.0	11.0	1.0	0.0	0
HMLTN.WNTWRTH	8	33	7.3	11.2	33.0	9.0	3.5	0.0	0
HURON	76	31	3.0	5.0	9.0	4.0	0.0	0.0	0
KENORA	4	15	5.5	6.6	15.0	9.5	3.5	1.5	0
KENT	12	5	1.0	1.5	2.0	2.0	0.0	0.0	0
LAMBTON	30	34	4.6	8.5	11.5	4.0	1.0	0.0	0
LANARK	64	24	3.2	5.3	9.0	4.0	0.0	0.0	0
LEEDS	12	12	1.8	3.7	5.0	2.0	0.0	0.0	0
LNNX.ADD	28	20	4.5	6.7	15.0	10.5	0.0	0.0	0
MANITOULIN	39	33	3.2	6.4	10.0	4.0	0.0	0.0	0
MIDDLESEX	28	27	4.9	5.9	13.0	6.5	3.5	0.0	0
MUSKOKA	3	6	2.0	3.5	6.0	6.0	0.0	0.0	0
NIAGARA	3	0	0.0	0.0	0.0	0.0	0.0	0.0	0
NIPISSING	7	16	2.3	6.0	16.0	0.0	0.0	0.0	0
NORTHUMBERLAND	29	35	2.9	6.7	8.0	4.0	0.0	0.0	0
OTTAWA.CARLTON	46	33	5.0	7.4	15.0	8.0	0.0	0.0	0
OXFORD	15	17	5.1	4.8	9.0	8.0	6.0	0.0	0
PARRYSOUND	4	3	0.8	1.5	3.0	1.5	0.0	0.0	0
PEEL	10	17	3.8	6.2	15.0	4.0	0.0	0.0	0
PERTH	35	28	7.1	7.3	17.0	10.0	5.0	0.0	0
PETERBOROUGH	75	32	2.9	5.9	10.0	4.0	0.0	0.0	0
PRESCOTT	12	5	0.8	1.8	4.0	0.0	0.0	0.0	0
PRINCE.EDWARD	10	9	2.7	3.5	8.5	4.0	1.0	0.0	0
RAINY.RIVER	57	16	2.1	3.5	9.0	3.0	0.0	0.0	0
RENFREW	147	33	3.7	5.3	10.0	5.0	2.0	0.0	0
RUSSELL	6	6	1.7	2.7	6.0	4.0	0.0	0.0	0
SIMCOE	51	35	3.6	7.3	9.0	4.0	0.0	0.0	0
STORMONT	7	18	3.7	6.9	18.0	8.0	0.0	0.0	0
SUDBURY	17	14	3.0	5.0	13.0	4.0	0.0	0.0	0
THUNDER.BAY	2	0	0.0	0.0	0.0	0.0	0.0	0.0	0
TIMISKAMING	20	40	6.3	9.5	16.5	8.5	3.5	0.0	0
VICTORIA	93	24	3.0	3.9	7.0	6.0	2.0	0.0	0
WATERLOO	6	8	3.0	2.9	8.0	4.0	3.0	0.0	0
WELLINGTON	41	37	4.4	7.7	12.0	6.0	0.0	0.0	0
YORK	4	11	3.0	5.4	11.0	6.0	0.5	0.0	0

Table 14. Average and Location Measures for Calf Treatment Rate (%), by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	38	11.9	12.0	32.0	17.0	10.0	2.0	0
BRANT	7	95	21.6	35.1	95.0	33.0	0.0	0.0	0
BRUCE	186	100	11.3	15.8	29.0	14.0	6.5	1.0	0
COCHRANE	14	100	36.7	37.9	100.0	50.0	31.5	2.0	0
DUFFERIN	35	25	5.8	8.6	20.0	9.0	0.0	0.0	0
DUNDAS	7	40	12.9	16.0	40.0	28.0	5.0	0.0	0
DURHAM.E	10	15	3.5	5.1	12.5	5.0	1.5	0.0	0
DURHAM.W	27	100	16.3	21.9	32.0	21.0	13.0	2.0	0
ELGIN	28	100	17.8	24.4	49.0	22.0	10.0	2.5	0
ESSEX	8	55	20.4	22.0	55.0	40.5	13.5	0.0	0
FRONTENAC	27	67	10.1	13.9	25.0	14.0	6.0	0.0	0
GLENGARRY	21	83	14.5	21.8	43.0	25.0	0.0	0.0	0
GRENVILLE	12	100	20.3	30.1	47.0	33.5	6.0	0.0	0
GREY	153	100	14.5	19.5	29.0	18.0	9.0	4.0	0
HALIBURTON	1	35	35.0	.	35.0	35.0	35.0	35.0	35
HALTON	5	18	7.2	6.8	18.0	8.0	7.0	3.0	0
HASTINGS	40	100	12.1	22.4	23.5	14.0	5.0	0.0	0
HLDMND.NRFLK	16	27	7.1	8.3	17.0	13.0	3.5	0.0	0
HMLTN.WNTWRTH	7	93	17.3	33.6	93.0	9.0	7.0	0.0	0
HURON	75	100	15.3	21.2	40.0	18.0	9.0	3.0	0
KENORA	4	100	53.3	54.1	100.0	100.0	55.0	6.5	3
KENT	11	63	13.2	18.9	32.0	16.0	6.0	0.0	0
LAMBTON	30	100	9.5	18.4	17.5	11.0	6.0	0.0	0
LANARK	68	100	16.5	28.2	71.0	18.0	6.0	0.0	0
LEEDS	12	35	12.0	11.4	25.0	21.0	9.5	2.0	0
LNNX.ADD	29	100	21.9	29.2	81.0	17.0	12.0	6.0	0
MANITOULIN	44	100	13.9	22.5	26.0	18.5	6.0	2.0	0
MIDDLESEX	28	95	16.8	19.8	42.0	22.5	11.0	5.0	0
MUSKOKA	2	6	3.0	4.2	6.0	6.0	3.0	0.0	0
NIAGARA	3	100	41.3	52.2	100.0	100.0	24.0	0.0	0
NIPISSING	8	100	39.6	50.3	100.0	100.0	7.5	0.0	0
NORTHUMBERLAND	29	100	14.8	21.9	50.0	21.0	7.0	0.0	0
OTTAWA.CARLTON	47	100	14.2	21.7	40.0	15.0	10.0	0.0	0
OXFORD	16	100	26.3	31.4	93.0	39.0	14.0	2.5	0
PARRYSOUND	4	23	7.5	10.8	23.0	15.0	3.5	0.0	0
PEEL	9	100	16.7	31.9	100.0	15.0	5.0	0.0	0
PERTH	35	100	21.3	26.2	52.0	32.0	11.0	5.0	0
PETERBOROUGH	75	100	19.3	28.3	71.0	25.0	8.0	0.0	0
PRESCOTT	10	25	10.1	8.9	23.5	18.0	8.0	4.0	0
PRINCE.EDWARD	10	100	25.2	29.5	73.0	29.0	16.0	7.0	2
RAINY.RIVER	56	100	17.2	29.4	88.0	18.5	5.5	0.0	0
RENFREW	152	100	17.1	24.6	39.0	21.0	9.0	0.0	0
RUSSELL	7	100	18.9	36.3	100.0	17.0	6.0	0.0	0
SIMCOE	51	100	17.7	25.2	52.0	25.0	6.0	0.0	0
STORMONT	7	92	22.1	32.5	92.0	27.0	10.0	0.0	0
SUDBURY	19	95	10.5	22.0	31.0	7.0	4.0	0.0	0
THUNDER.BAY	2	44	34.5	13.4	44.0	44.0	34.5	25.0	25
TIMISKAMING	23	100	21.7	23.9	46.0	26.0	15.0	5.0	0
VICTORIA	92	80	13.9	18.1	41.0	19.5	7.5	0.0	0
WATERLOO	6	100	32.0	40.7	100.0	64.0	12.0	4.0	0
WELLINGTON	41	100	17.1	25.5	30.0	16.0	9.0	0.0	0
YORK	4	29	12.0	12.2	29.0	19.5	9.5	4.5	0

Table 15. Average and Location Measures for **Weaned Calf Crop Rate (%)**, by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	98	88.2	5.9	97.0	94.0	88.0	84.0	78
BRANT	8	100	87.3	13.6	100.0	99.0	90.0	77.0	66
BRUCE	190	113	89.1	11.3	100.0	97.0	92.0	83.0	75
COCHRANE	18	100	84.16	9.3	100.0	91.0	83.0	80.0	67
DUFFERIN	35	104	88.4	10.6	100.0	97.0	90.0	82.0	73
DUNDAS	7	95	85.1	10.5	95.0	94.0	87.0	77.0	66
DURHAM.E	10	104	88.7	13.8	102.0	96.0	90.5	88.0	69
DURHAM.W	25	108	86.5	10.7	100.0	91.0	88.0	81.0	73
ELGIN	30	105	85.0	17.3	100.0	100.0	90.0	79.0	57
ESSEX	8	100	92.4	9.9	100.0	100.0	93.0	91.5	70
FRONTENAC	29	106	91.5	10.5	100.0	100.0	95.0	84.0	78
GLENGARRY	21	100	87.4	10.3	100.0	96.0	90.0	80.0	75
GRENVILLE	12	100	89.5	10.7	100.0	100.0	92.0	82.5	71
GREY	152	112	89.4	10.4	100.0	96.0	92.0	83.5	76
HALIBURTON	1	98	98.0	.	98.0	98.0	98.0	98.0	98
HALTON	4	100	89.3	9.4	100.0	95.0	90.0	83.5	77
HASTINGS	41	106	90.3	9.5	100.0	97.0	91.0	87.0	80
HLDMND.NRFLK	18	100	88.4	8.8	100.0	96.0	89.5	83.0	78
HMLTN.WNTWRTH	8	100	80.4	20.1	100.0	98.0	80.5	73.0	40
HURON	77	105	88.9	12.4	100.0	96.0	91.0	85.0	77
KENORA	4	100	88.8	10.9	100.0	96.0	90.5	81.5	74
KENT	12	102	93.1	7.2	100.0	96.0	94.0	91.5	90
LAMBTON	31	113	90.2	11.0	100.0	95.0	92.0	85.0	80
LANARK	68	106	88.5	13.1	100.0	100.0	92.5	80.0	66
LEEDS	12	100	87.8	11.9	100.0	94.0	90.5	87.5	67
LNNX.ADD	29	100	87.9	12.5	100.0	96.0	91.0	85.0	60
MANITOULIN	40	100	87.9	9.6	99.5	94.5	89.0	84.5	72
MIDDLESEX	28	100	83.4	10.8	93.0	90.5	85.5	79.0	70
MUSKOKA	3	100	91.7	9.7	100.0	100.0	94.0	81.0	81
NIAGARA	3	108	95.7	10.7	108.0	108.0	90.0	89.0	89
NIPISSING	8	118	94.0	13.4	118.0	100.0	95.5	83.5	76
NORTHUMBERLAND	31	100	88.6	9.1	100.0	97.0	89.0	83.0	79
OTTAWA.CARLTON	48	108	87.4	11.5	100.0	95.5	88.5	81.0	71
OXFORD	16	100	86.2	9.4	96.0	94.0	88.5	80.5	74
PARRYSOUND	4	100	90.5	13.8	100.0	98.5	96.0	82.5	70
PEEL	10	100	80.7	15.4	97.5	93.0	85.0	65.0	58
PERTH	35	100	84.8	10.5	96.0	93.0	86.0	76.0	69
PETERBOROUGH	75	105	87.9	12.6	100.0	100.0	91.0	81.0	69
PRESCOTT	12	100	87.9	12.5	100.0	97.0	93.0	78.0	71
PRINCE.EDWARD	10	100	83.4	14.5	100.0	94.0	84.5	72.0	62
RAINY.RIVER	59	106	89.2	9.5	100.0	96.0	90.0	85.0	74
RENFREW	153	104	88.6	9.7	100.0	95.0	91.0	85.0	75
RUSSELL	7	100	94.4	4.2	100.0	98.0	94.0	92.0	87
SIMCOE	52	109	91.5	9.3	100.0	99.0	93.0	86.5	81
STORMONT	8	100	90.5	8.6	100.0	98.0	92.5	83.0	77
SUDBURY	19	100	91.4	9.1	100.0	100.0	95.0	86.0	79
THUNDER.BAY	2	100	95.5	6.4	100.0	100.0	95.5	91.0	91
TIMISKAMING	23	125	88.1	15.4	106.0	97.0	90.0	82.0	67
VICTORIA	97	105	91.0	8.6	100.0	97.0	93.0	87.0	78
WATERLOO	6	97	86.3	7.9	97.0	92.0	86.0	83.0	74
WELLINGTON	41	104	86.9	11.5	98.0	94.0	89.0	85.0	71
YORK	4	100	89.5	13.9	100.0	98.0	94.5	81.0	69

Table 16. Average and Location Measures for 200 Day Adjusted Weaning Weight (lbs), by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	642	583.4	42.8	635.0	616.0	580.0	561.0	549.0
BRANT	7	682	601.4	69.9	682.0	648.0	621.0	563.0	471.0
BRUCE	190	734	538.8	64.8	621.0	579.0	538.5	496.0	463.5
COCHRANE	18	676	556.3	58.1	656.0	592.0	543.5	511.0	482.0
DUFFERIN	35	705	551.7	69.8	627.0	591.0	572.0	488.0	462.0
DUNDAS	7	725	600.6	69.5	725.0	616.0	610.0	527.0	513.0
DURHAM.E	9	611	556.2	76.6	611.0	595.0	580.0	574.0	369.0
DURHAM.W	25	732	531.6	86.3	643.0	585.0	527.0	459.0	414.0
ELGIN	29	695	521.6	74.3	625.0	568.0	512.0	482.0	413.0
ESSEX	8	597	516.1	62.1	597.0	568.5	517.0	471.5	418.0
FRONTENAC	29	670	569.9	62.6	645.0	616.0	566.0	547.0	476.0
GLENGARRY	21	743	599.9	91.0	717.0	663.0	590.0	558.0	513.0
GRENVILLE	12	738	577.1	88.3	654.0	630.5	590.5	521.0	491.0
GREY	154	741	558.5	77.2	666.0	618.0	549.5	505.0	459.0
HALIBURTON	1	582	582.0	.	582.0	582.0	582.0	582.0	582.0
HALTON	5	659	594.6	40.8	659.0	603.0	587.0	573.0	551.0
HASTINGS	42	687	554.4	74.1	643.0	599.0	558.5	500.0	445.0
HLDMND.NRFLK	17	676	555.8	66.7	657.0	593.0	567.0	507.0	461.0
HMLTN.WNTWRTH	8	666	523.8	117.9	666.0	601.0	564.5	423.5	346.0
HURON	76	701	552.7	69.0	659.0	606.5	551.0	503.5	461.0
KENORA	4	617	551.5	44.2	617.0	577.0	534.0	526.0	521.0
KENT	12	654	511.3	78.4	597.0	574.0	515.0	432.5	424.0
LAMBTON	29	657	528.3	77.8	623.0	596.0	525.0	481.0	409.0
LANARK	70	675	538.4	61.9	619.5	589.0	541.0	497.0	461.5
LEEDS	12	758	581.7	97.8	692.0	656.0	560.0	518.0	450.0
LNNX.ADD	29	672	567.0	62.4	656.0	606.0	570.0	507.0	474.0
MANITOULIN	44	694	550.9	54.0	619.0	589.5	543.0	514.0	488.0
MIDDLESEX	29	660	543.5	76.5	645.0	604.0	539.0	498.0	422.0
MUSKOKA	3	521	473.7	46.5	521.0	521.0	472.0	428.0	428.0
NIAGARA	3	604	516.0	95.2	604.0	604.0	529.0	415.0	415.0
NIPISSING	7	645	583.1	56.9	645.0	632.0	583.0	575.0	470.0
NORTHUMBERLAND	31	683	557.1	65.3	628.0	608.0	572.0	495.0	481.0
OTTAWA.CARLTON	47	743	569.0	67.5	642.0	615.0	560.0	521.0	484.0
OXFORD	16	649	525.9	69.0	602.0	579.0	531.0	475.5	424.0
PARRYSOUND	4	703	554.5	101.8	703.0	620.0	517.5	489.0	480.0
PEEL	10	775	572.9	109.7	741.0	648.0	546.5	522.0	443.0
PERTH	33	716	541.9	64.7	619.0	591.0	539.0	497.0	466.0
PETERBOROUGH	77	685	555.1	63.2	628.0	599.0	555.0	523.0	479.0
PRESCOTT	11	659	567.1	53.9	605.0	590.0	583.0	528.0	499.0
PRINCE.EDWARD	10	716	537.1	84.5	667.5	571.0	519.0	478.0	440.0
RAINY.RIVER	59	658	560.4	46.9	612.0	592.0	563.0	525.0	493.0
RENFREW	154	686	539.3	63.5	624.0	575.0	540.0	502.0	464.0
RUSSELL	7	740	594.7	70.4	740.0	609.0	583.0	544.0	526.0
SIMCOE	52	751	553.8	65.9	623.0	584.5	554.5	504.0	483.0
STORMONT	8	754	526.3	152.3	754.0	618.5	549.5	410.0	300.0
SUDBURY	19	679	577.8	67.2	658.0	639.0	580.0	544.0	457.0
THUNDER.BAY	2	737	606.0	185.3	737.0	737.0	606.0	475.0	475.0
TIMISKAMING	24	730	571.5	75.0	650.0	623.0	570.5	527.5	470.0
VICTORIA	98	751	563.4	74.2	672.0	606.0	563.5	512.0	469.0
WATERLOO	6	575	515.3	83.6	575.0	559.0	543.5	522.0	349.0
WELLINGTON	41	717	540.9	69.4	632.0	577.0	545.0	492.0	461.0
YORK	4	689	583.3	93.4	689.0	655.5	586.0	511.0	472.0

Table 17. Average and Location Measures for (Adjusted) **Weaning Weight of Calf Per Cow Exposed to Mating (lbs)**, by County or District, Red Meat II, Cow-Calf Herd Health Option Participants, 1990

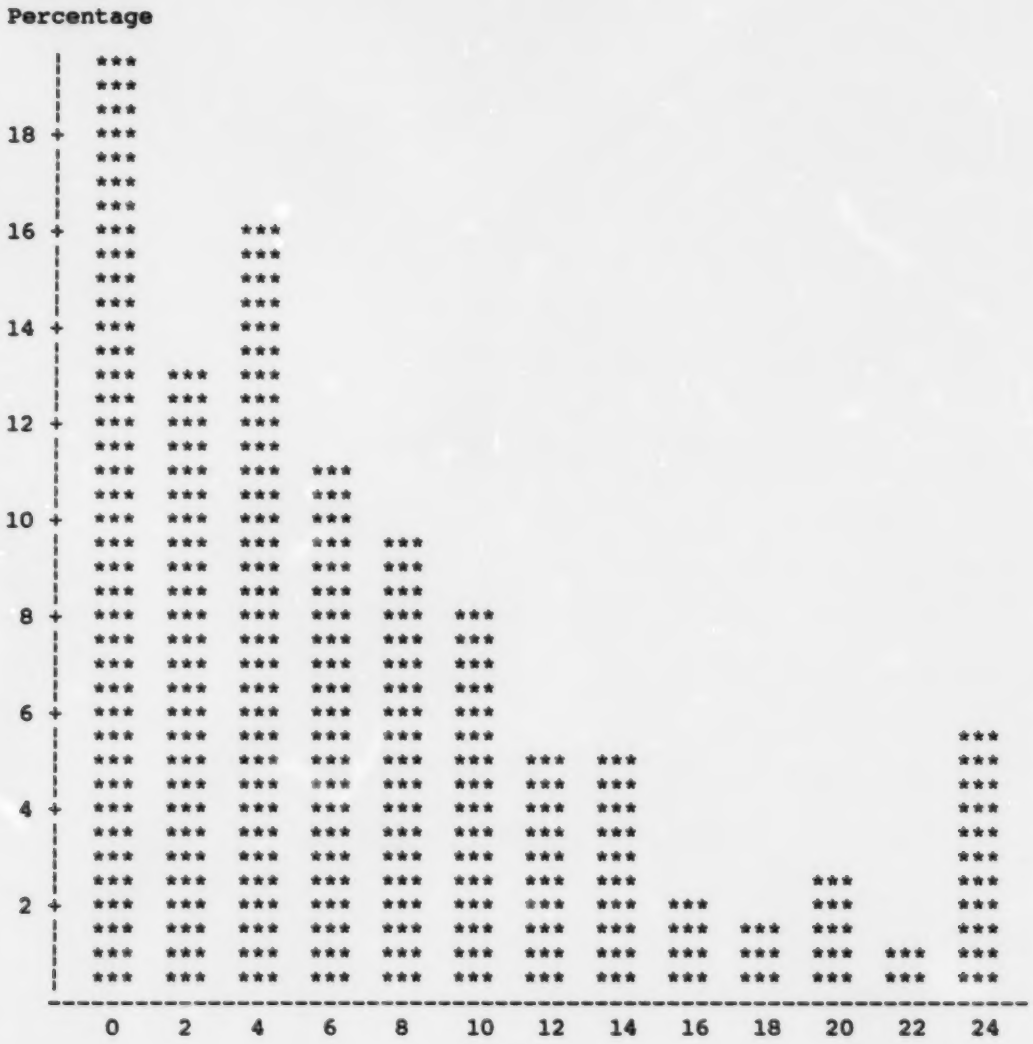
	NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
ALGOMA	19	597	514.6	53.5	565.0	561.0	529.0	485.0	440.0
BRANT	7	667	515.4	116.9	667.0	621.0	491.0	396.0	393.0
BRUCE	190	730	480.4	85.6	573.0	533.0	483.5	430.0	378.0
COCHRANE	18	656	470.5	88.4	632.0	523.0	450.5	414.0	365.0
DUFFERIN	35	648	487.8	84.3	618.0	538.0	485.0	435.0	385.0
DUNDAS	7	578	508.4	64.9	578.0	558.0	529.0	447.0	404.0
DURHAM.E	8	595	504.8	64.3	595.0	538.0	518.0	473.0	385.0
DURHAM.W	24	605	460.8	90.2	595.0	541.0	445.0	375.5	349.0
ELGIN	28	710	439.7	112.4	566.0	500.5	455.5	405.5	274.0
ESSEX	8	551	476.6	76.1	551.0	526.5	496.5	449.5	317.0
FRONTENAC	29	625	524.1	91.1	618.0	580.0	555.0	504.0	400.0
GLENGARRY	21	729	524.7	103.2	657.0	590.0	513.0	447.0	401.0
GRENVILLE	12	613	512.1	67.1	593.0	557.0	528.5	449.5	429.0
GREY	152	747	500.1	94.2	635.0	545.5	500.5	440.0	397.0
HALIBURTON	1	572	572.0	.	572.0	572.0	572.0	572.0	572.0
HALTON	4	595	530.0	76.9	595.0	584.0	551.5	476.0	422.0
HASTINGS	41	683	502.9	85.9	608.0	582.0	500.0	452.0	392.0
HLDMND.NRFLK	17	591	493.1	78.8	584.0	558.0	515.0	430.0	369.0
HMLTN.WNTWRTH	8	616	431.6	160.9	616.0	570.5	442.5	334.5	142.0
HURON	76	734	497.9	86.1	620.0	554.0	491.5	437.0	388.0
KENORA	4	617	492.5	92.9	617.0	549.5	480.5	435.5	392.0
KENT	12	607	476.7	87.9	597.0	554.5	465.0	399.0	381.0
LAMBTON	28	626	472.9	88.9	593.0	545.0	481.0	416.5	343.0
LANARK	68	643	478.7	92.4	595.0	546.0	484.0	412.0	370.0
LEEDS	12	707	511.1	113.4	629.0	607.0	501.5	416.5	390.0
LNNX.ADD	29	672	500.4	101.3	621.0	580.0	500.0	435.0	364.0
MANITOULIN	40	610	485.5	64.5	555.0	531.5	492.5	447.0	388.51
MIDDLESEX	28	613	452.5	79.1	584.0	479.0	457.5	410.5	374.0
MUSKOKA	3	521	436.3	87.6	521.0	521.0	442.0	346.0	346.0
NIAGARA	3	650	498.7	139.6	650.0	650.0	471.0	375.0	375.0
NIPISSING	7	747	555.7	112.2	747.0	645.0	546.0	461.0	438.0
NORTHUMBERLAND	31	669	493.4	78.4	595.0	556.0	490.0	421.0	404.0
OTTAWA.CARLTON	47	698	497.5	96.9	624.0	555.0	512.0	431.0	357.0
OXFORD	16	572	452.6	73.3	531.0	504.5	472.5	405.0	350.0
PARRYSOUND	4	511	492.3	18.9	511.0	504.5	496.0	480.0	466.0
PEEL	10	775	474.4	167.1	701.5	616.0	451.5	349.0	256.5
PERTH	33	596	455.4	73.2	552.0	500.0	457.0	412.0	352.0
PETERBOROUGH	75	721	489.1	96.9	596.0	555.0	509.0	441.0	375.0
PRESCOTT	11	573	503.0	69.6	567.0	566.0	526.0	465.0	409.0
PRINCE.EDWARD	10	619	445.8	100.7	598.0	529.0	428.5	375.0	337.0
RAINY.RIVER	59	632	500.3	73.6	606.0	566.0	495.0	445.0	395.0
RENFREW	153	641	478.3	77.9	576.0	526.0	483.0	430.0	384.0
RUSSELL	7	699	561.4	67.2	699.0	594.0	544.0	518.0	507.0
SIMCOE	52	751	506.5	79.9	601.0	560.5	499.5	461.5	428.0
STORMONT	8	754	480.3	162.4	754.0	560.5	507.5	350.5	251.0
SUDBURY	19	643	526.5	74.9	642.0	573.0	530.0	466.0	409.0
THUNDER.BAY	2	737	585.5	214.3	737.0	737.0	585.5	434.0	434.0
TIMISKAMING	23	755	509.5	127.4	664.0	586.0	528.0	430.0	314.0
VICTORIA	97	690	512.5	88.9	627.0	575.0	522.0	443.0	395.0
WATERLOO	6	517	444.8	83.2	517.0	514.0	464.0	410.0	300.0
WELLINGTON	41	687	470.4	91.5	570.0	545.0	464.0	415.0	351.0
YORK	4	689	526.0	142.3	689.0	643.0	518.0	409.0	379.0

Section 5

Beef Cow-Calf Herds

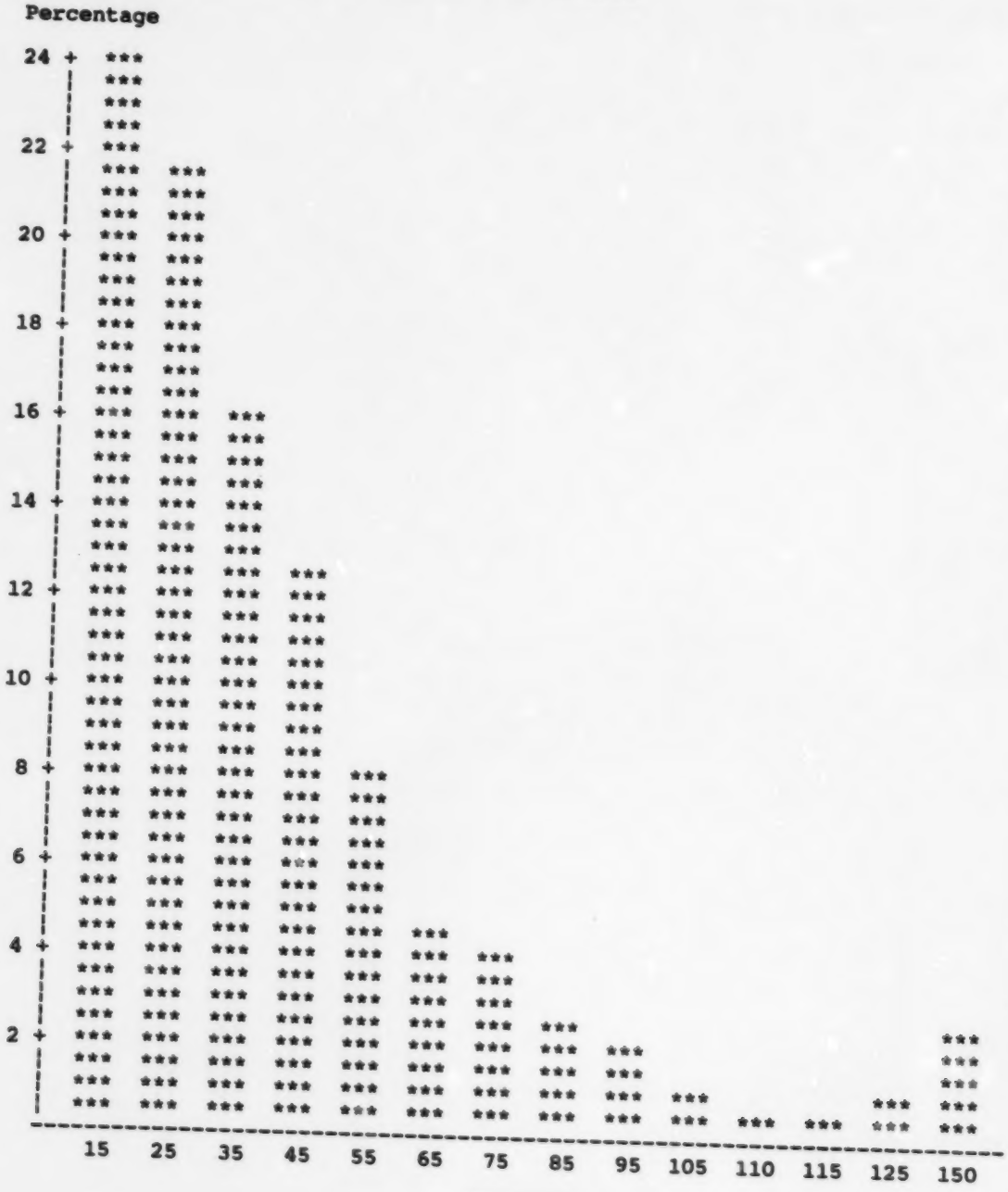
Frequency Distributions
Shown by Figures
for Herd Performance
All Participating Herds

Figure 1. Distribution of Number of HEIFERS in 1990



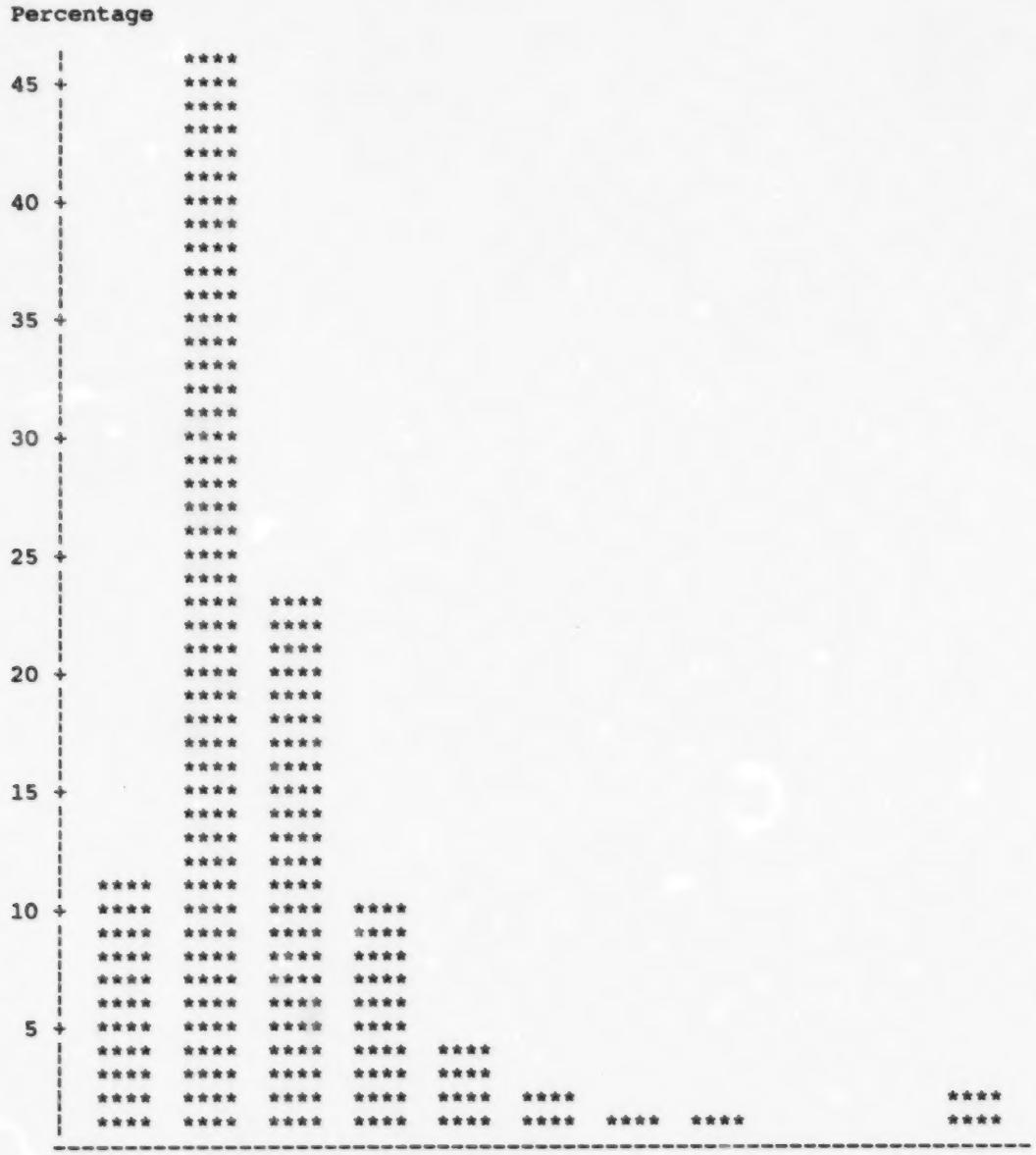
NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1679	220	8.1	10.2	18	11	6	2	0

Figure 2. Distribution of Number of COWS in 1990



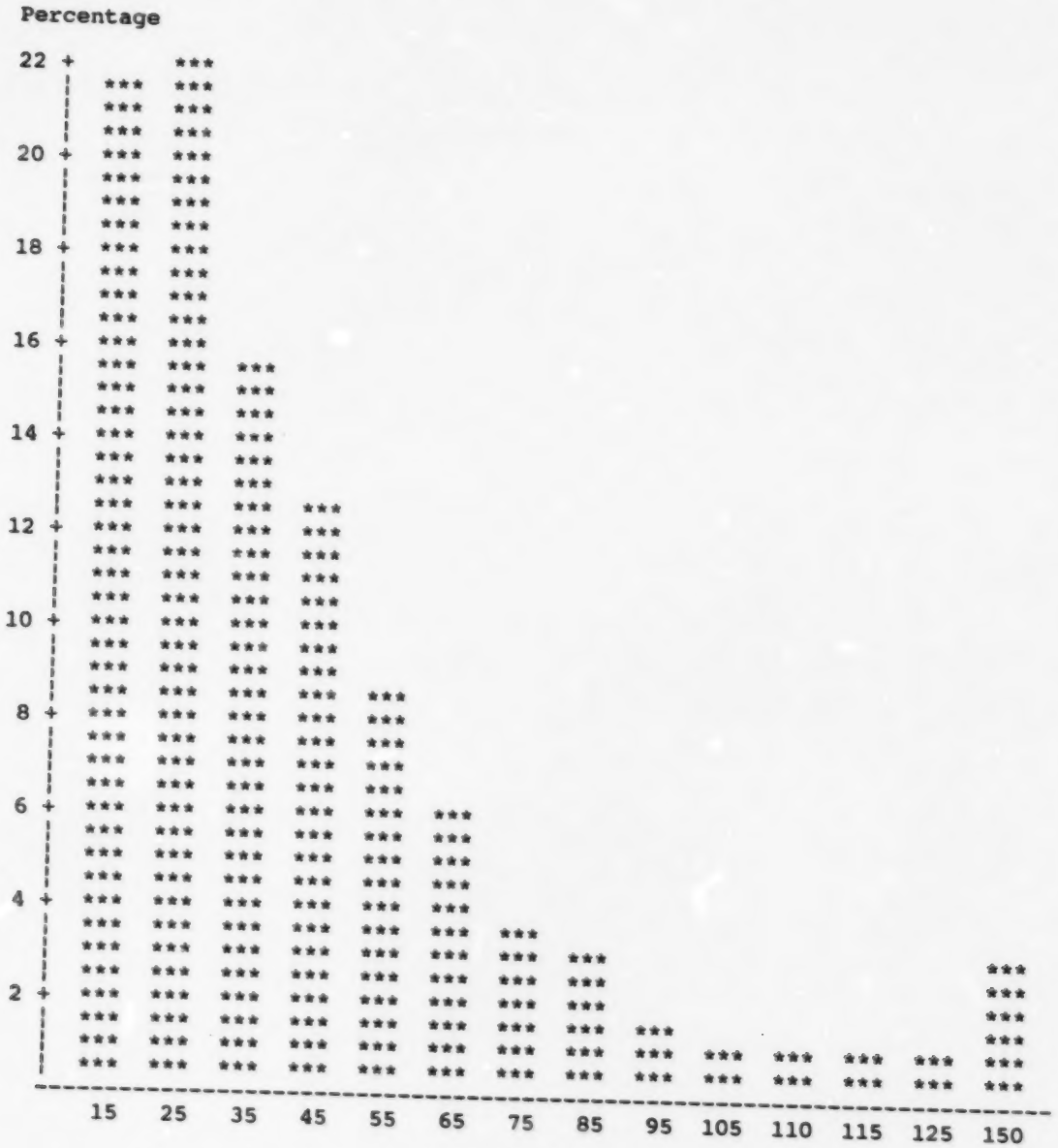
NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1678	426	42.1	33.3	80	51	33	21	14

Figure 3. Distribution of Number of BULLS in 1990



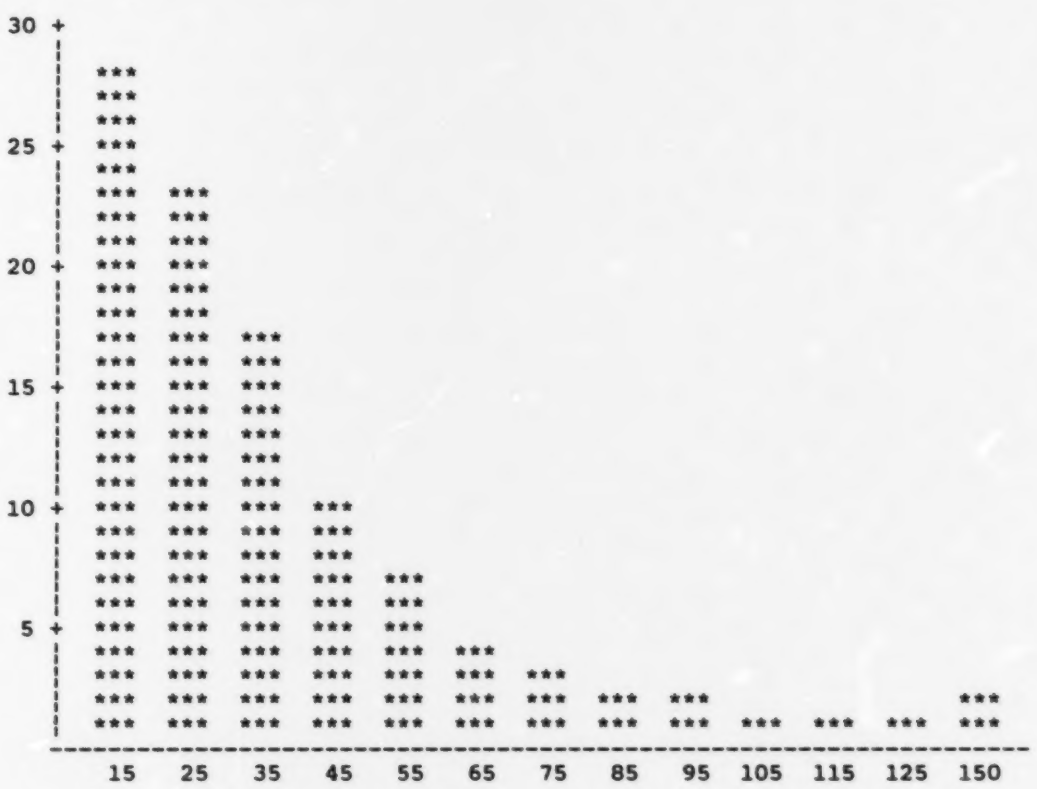
NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1678	101	2.0	3.6	4	2	1	1	0

Figure 4. Distribution of Number of Cows EXPOSED to Mating in 1990



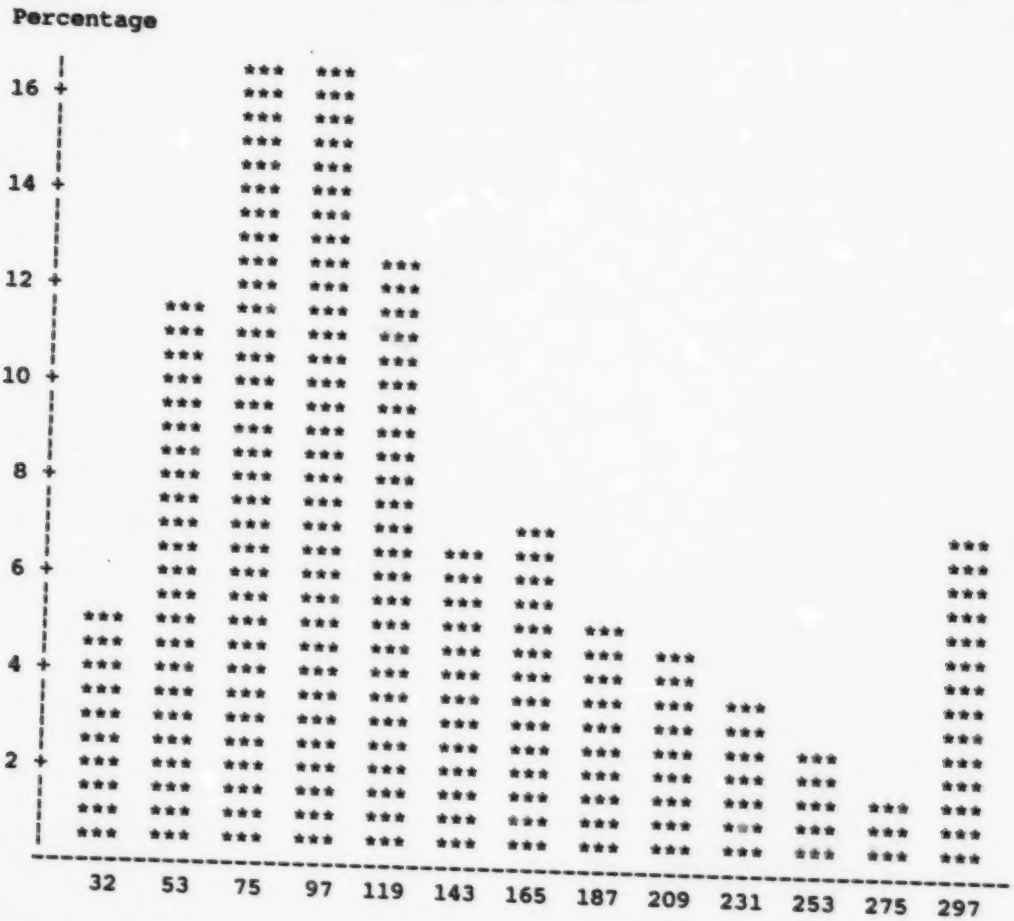
NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1687	510	45.1	38.5	85	54	35	22	15

Figure 5. Distribution of Number of CALVES WEANED in 1990



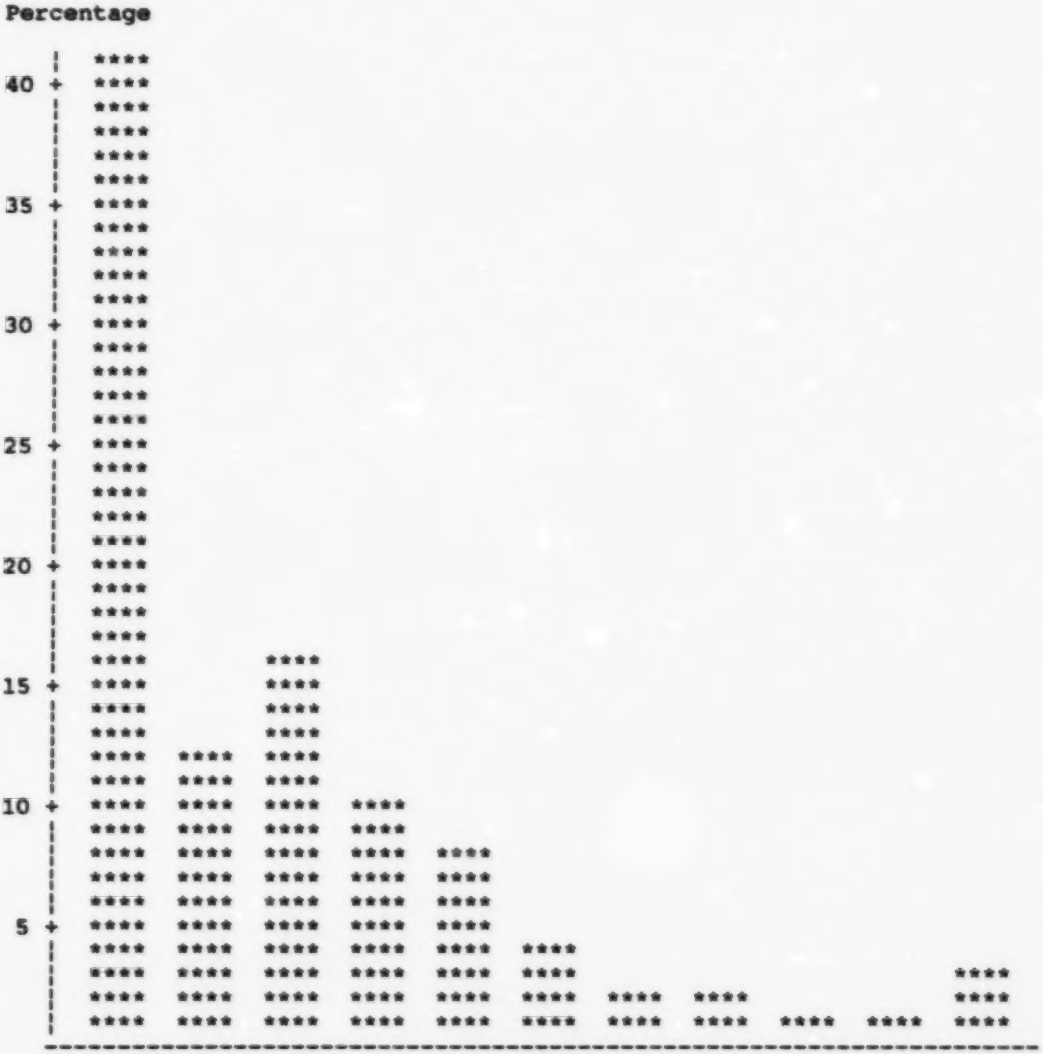
NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1667	426	39.1	32.5	74	48	30	19	13

Figure 6. Distribution of CALVING SPREAD in 1990



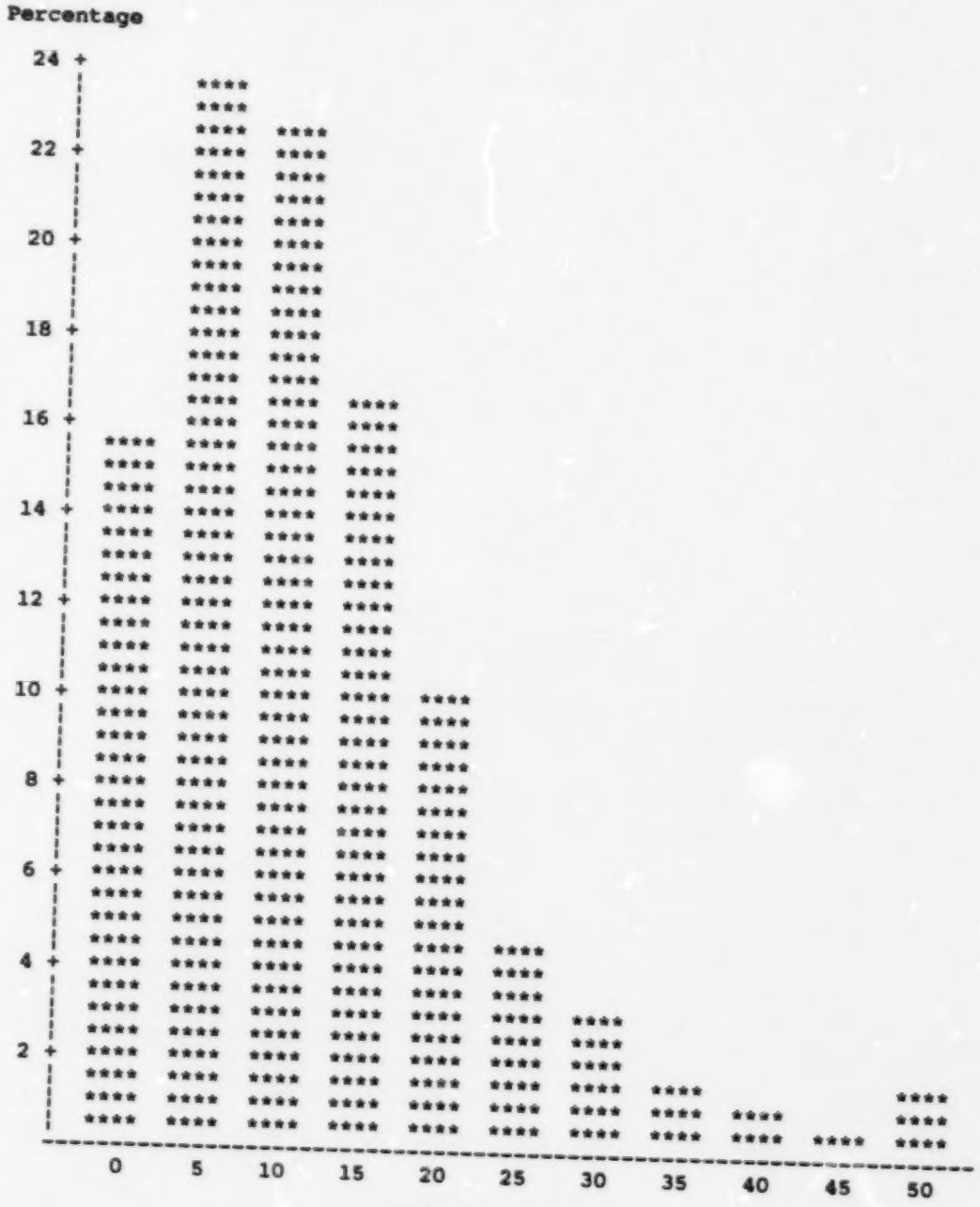
NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1652	365	133.7	78.1	253	173	110	78	56

Figure 7. Distribution of OPEN RATE in 1990



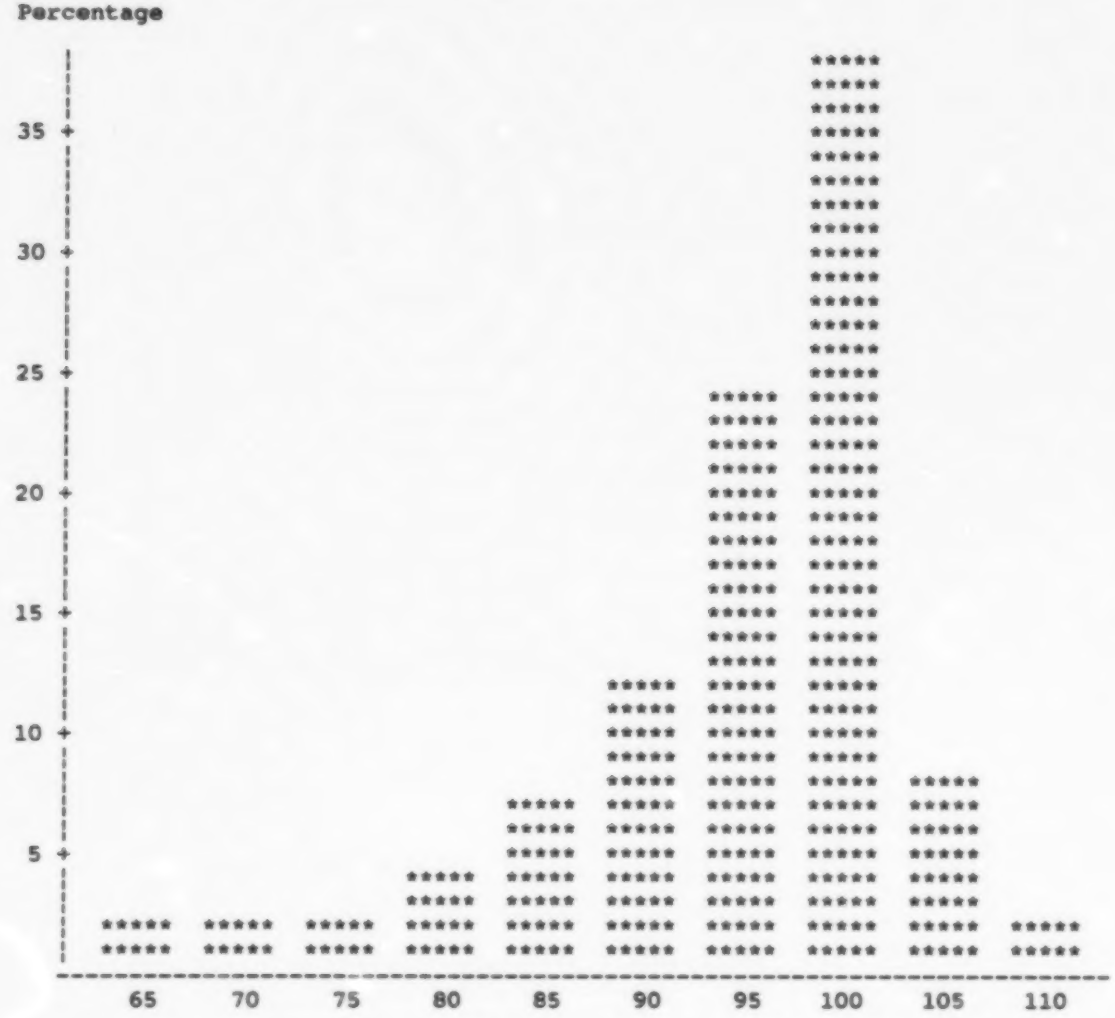
NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1684	89	4.3	6.2	11	6	3	0	0

Figure 8. Distribution of REMOVAL RATE in 1990



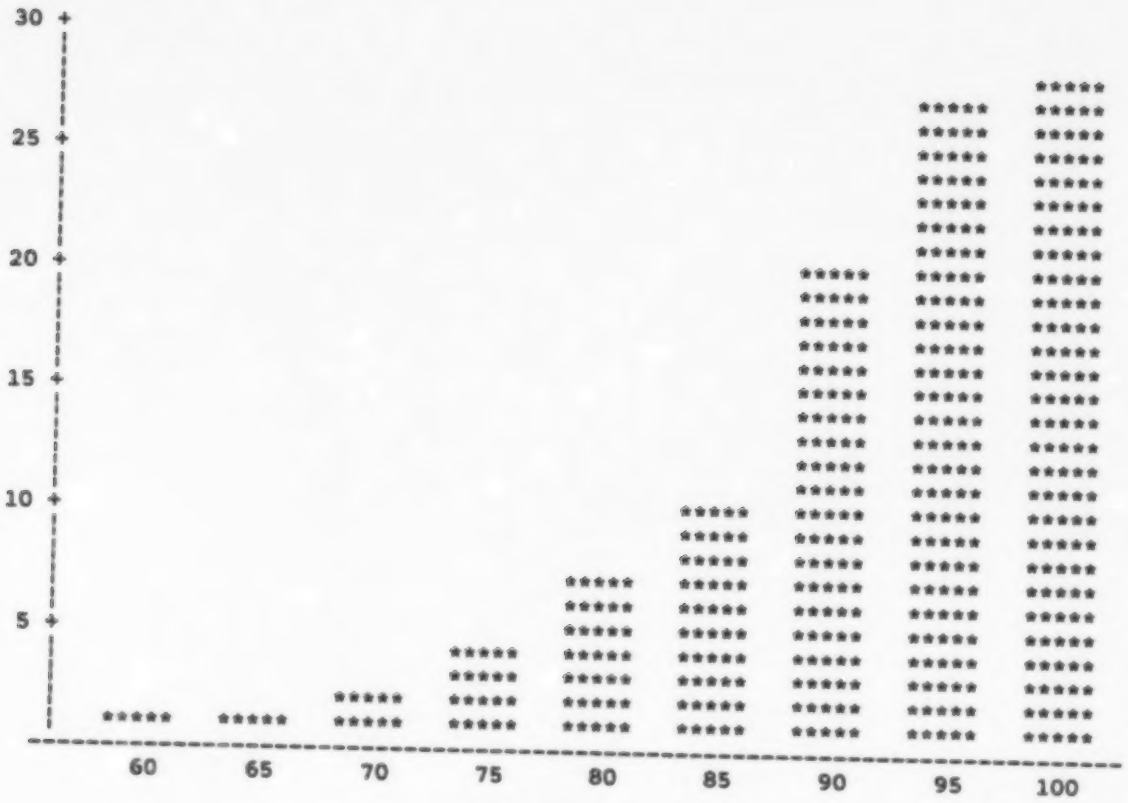
NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1674	97	12.1	11.0	25	17	10	5	0

Figure 9. Distribution of CALVING RATE in 1990



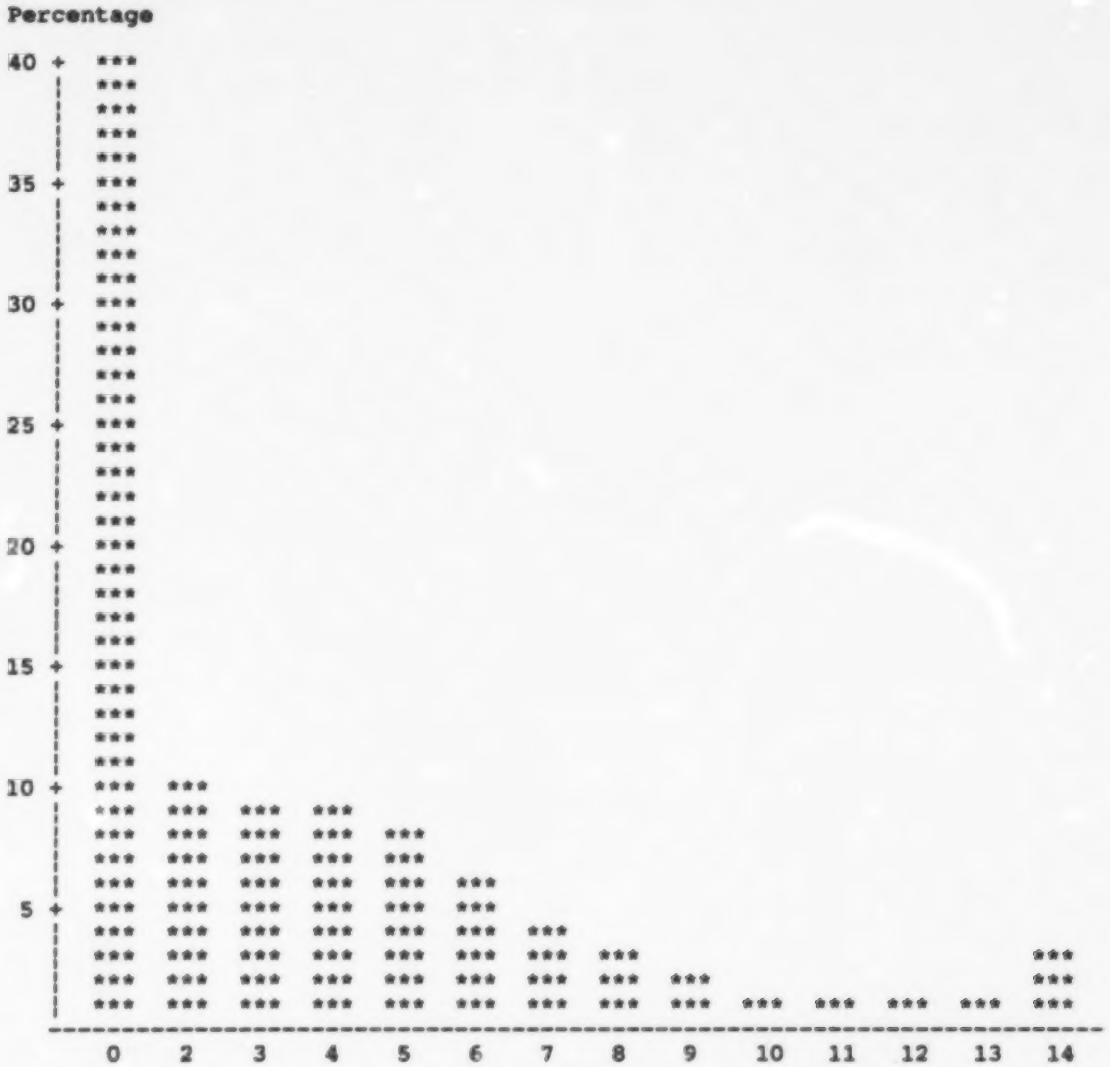
NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1687	129	94.7	9.3	102	100	97	92	83

Figure 10. Distribution of LIVEBORN CALVING RATE in 1990



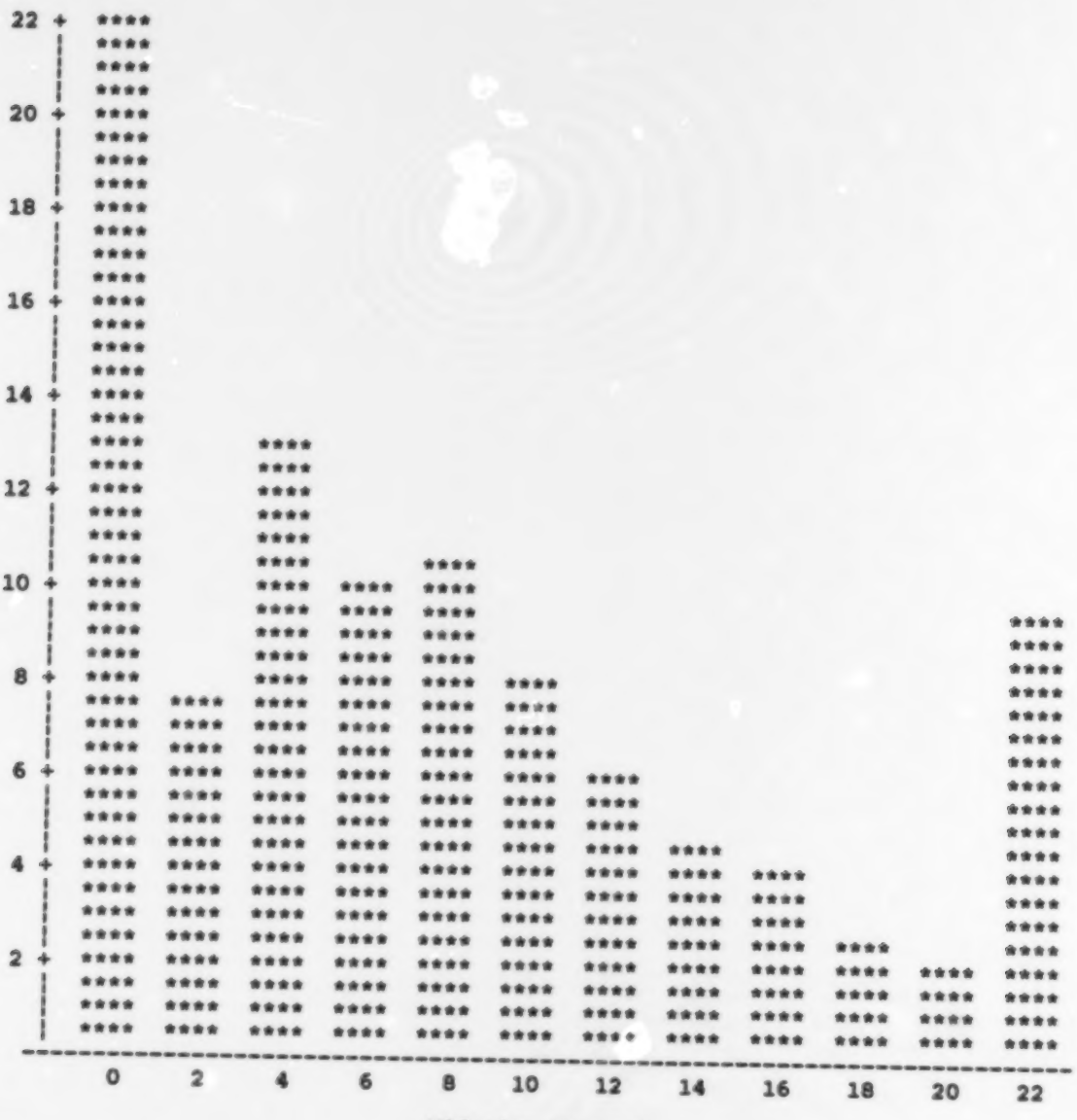
NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1687	113	91.5	9.8	100	99	94	88	79

Figure 11. Distribution of STILLBORN CALVING RATE in 1990



NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1687	41	3.4	4.3	8	5	2	0	0

Figure 12. Distribution of ASSISTED CALVING RATE in 1990



NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1686	100	9.1	10.7	20	12	7	2	0

Figure 13. Distribution of CALF MORTALITY RATE in 1990

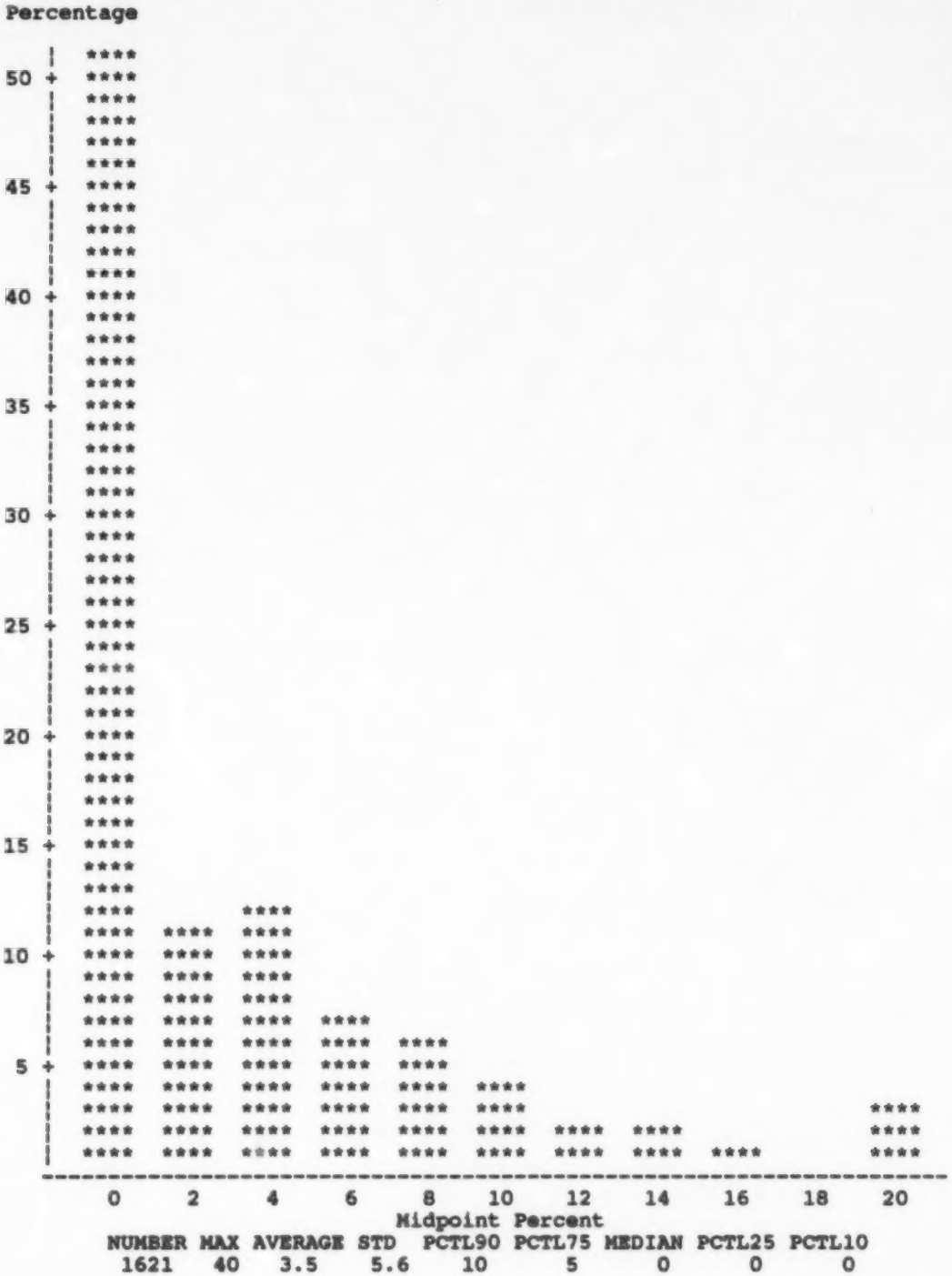
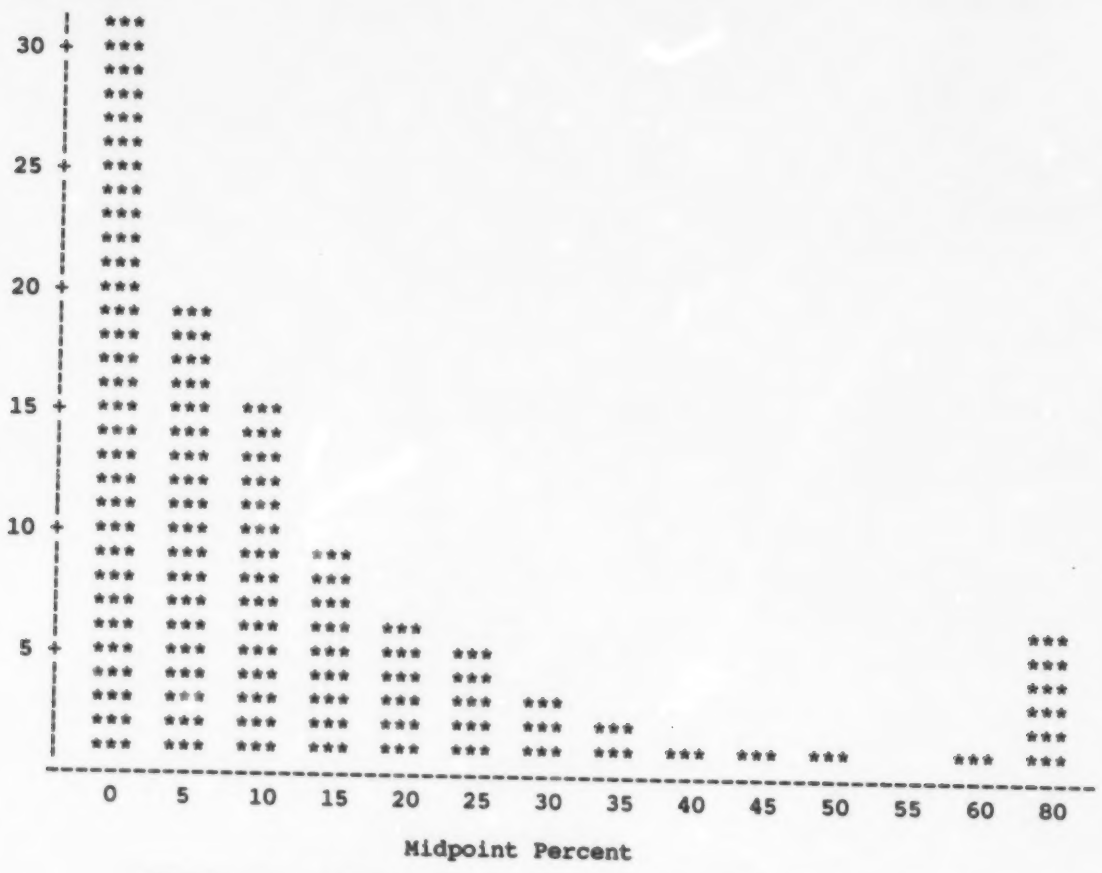
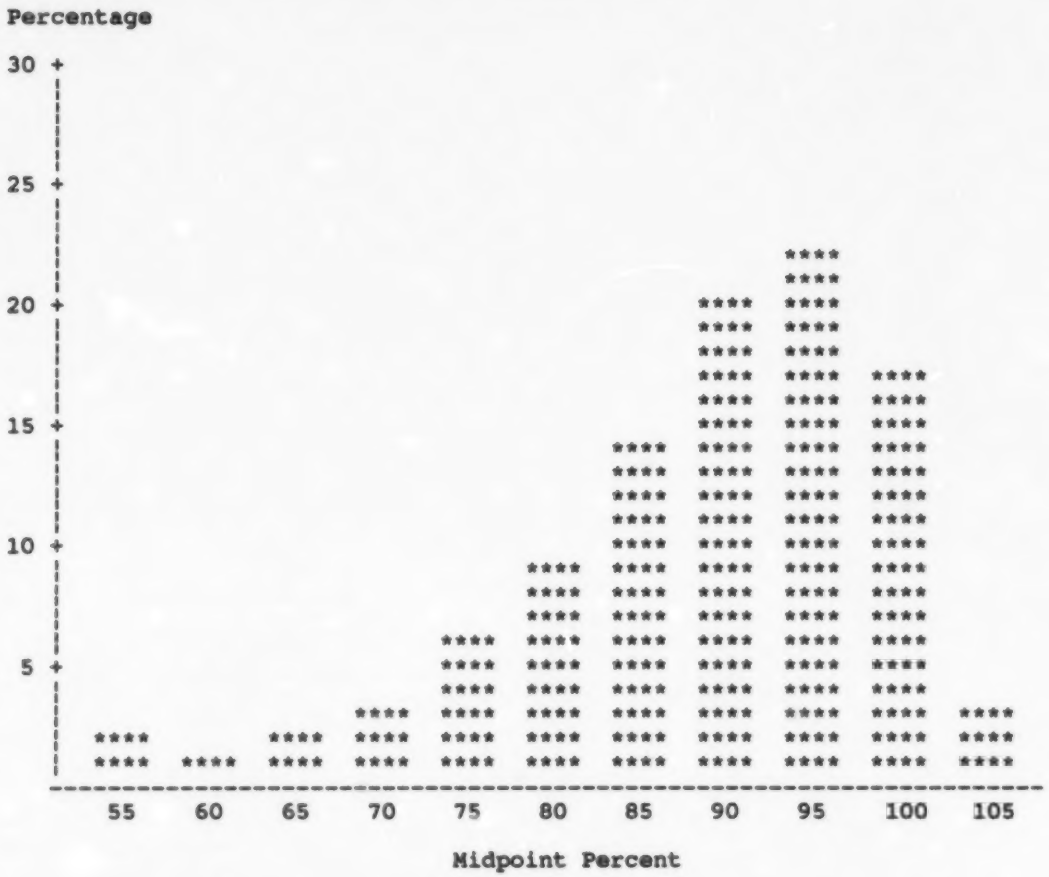


Figure 14. Distribution of TREATMENT RATE for CALVES in 1990



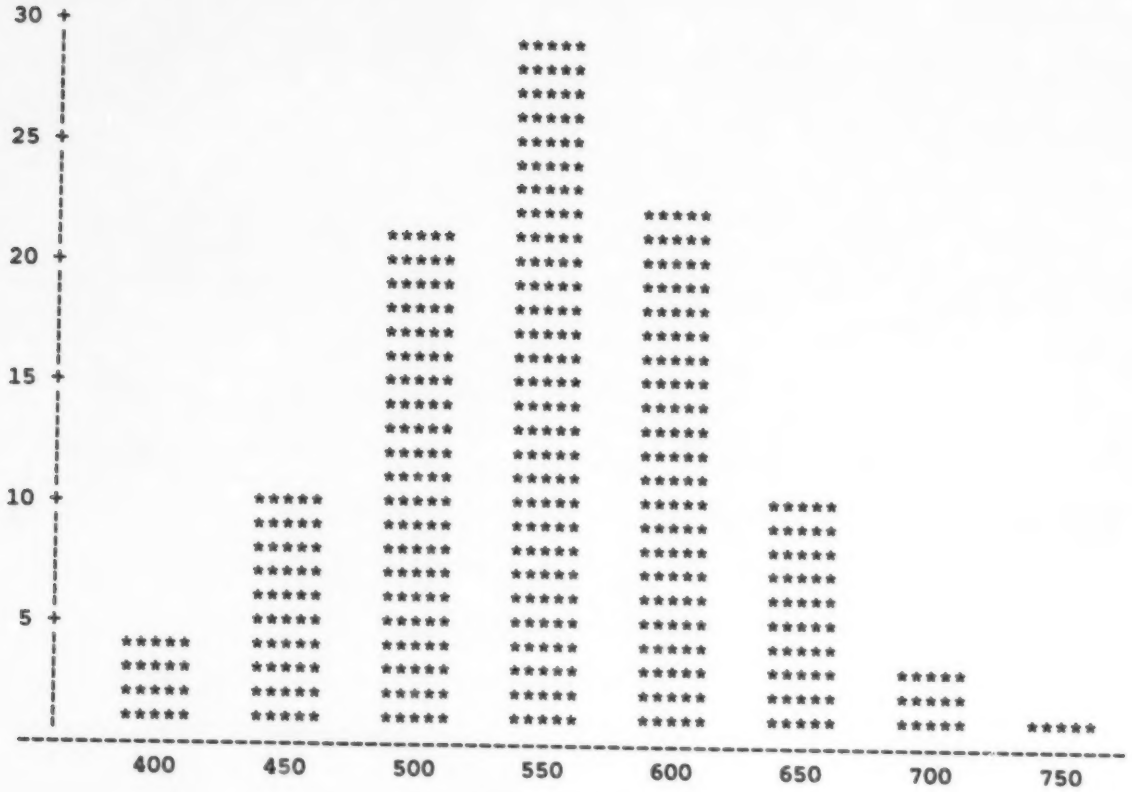
NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1635	100	15.6	23.1	40	19	8	0	0

Figure 15. Distribution of WEANED CALF CROP RATE in 1990



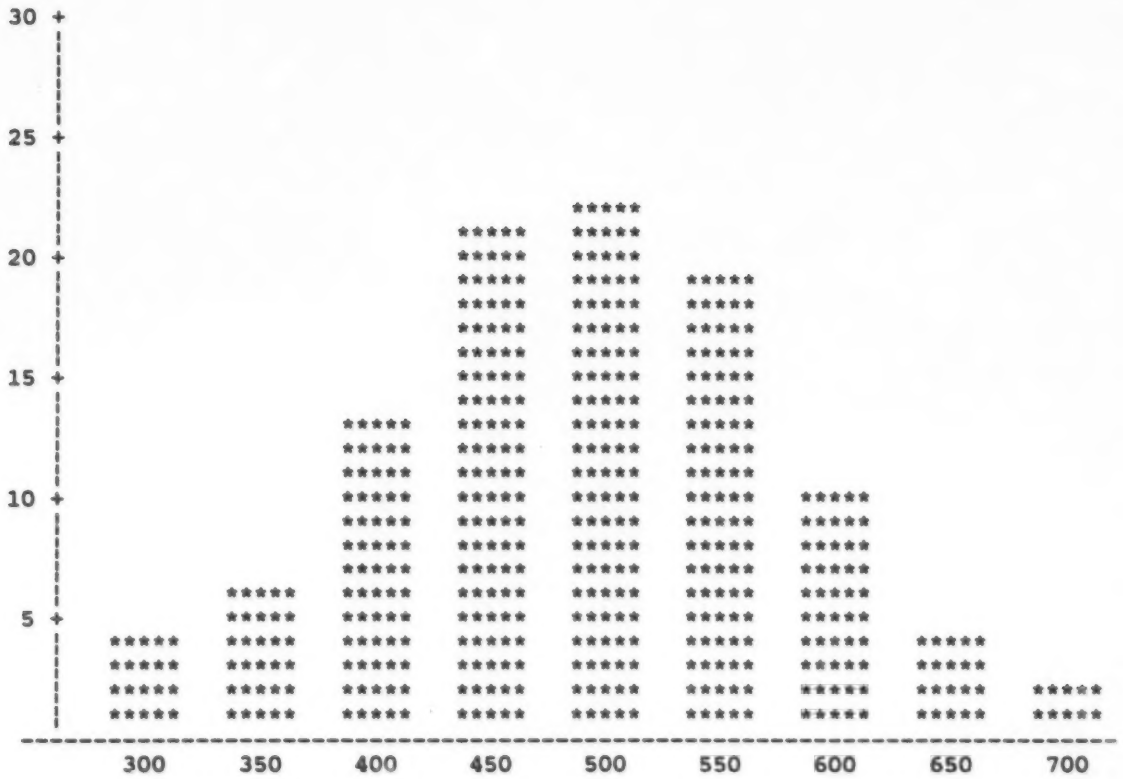
NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1666	125	88.6	11.0	100	96	91	83	74

Figure 16. Distribution of 200 DAY AVERAGE ADJUSTED WEANING WEIGHT in 1990



NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1670	775	552	70.8	643	597	552	505	463

Figure 17. Distribution of WEIGHT of CALF per COW EXPOSED in 1990



NUMBER	MAX	AVERAGE	STD	PCTL90	PCTL75	MEDIAN	PCTL25	PCTL10
1650	775	490	90.1	601	550	492	432	381